

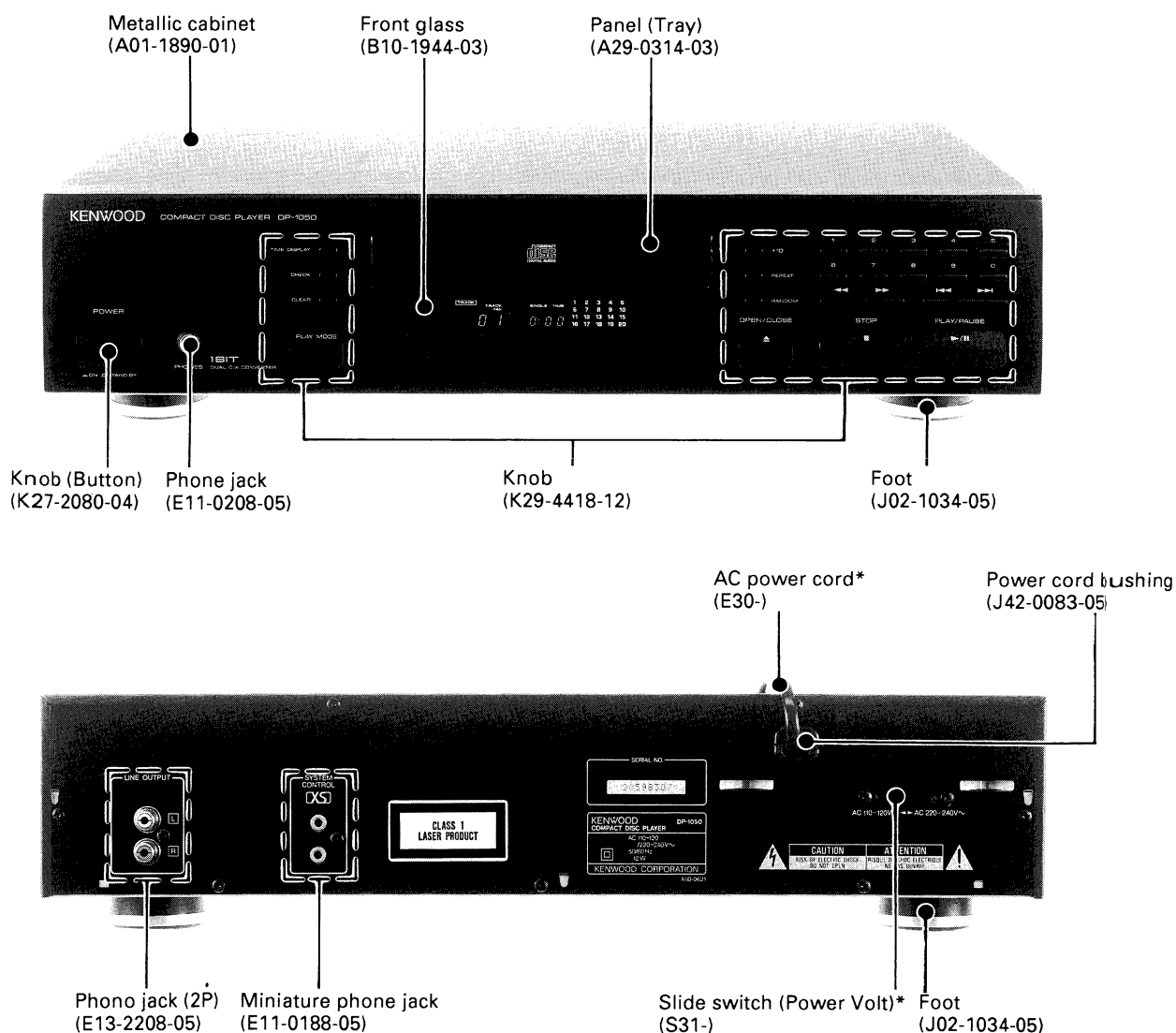
COMPACT DISC PLAYER

DP-1050/2050

SERVICE MANUAL

KENWOOD

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B51-4647-00 (O) 4094



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.**

Photo is DP-1050.

*** Refer to parts list on page 34.**

DP-1050/2050

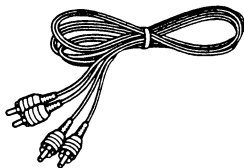
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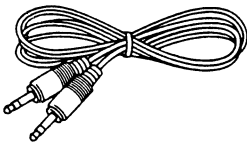
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ACCESSORIES

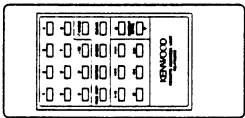
- Audio cord 1
(E30-0505-05)



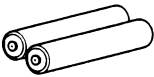
- System control cord 1
(E30-1392-05)



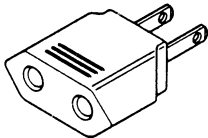
- Remote control unit (DP-2050 only) 1
(A70-0529-05 : P,Y,M,X,T,E type)
(A70-0532-05 : K type)



- Batteries (DP-2050 only) 2
(-)



- AC plug adaptor 1
(E03-0115-05 : M type only)
(Except for some areas)



For the unit with a European AC
plug in areas other than Europe.

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EXTERNAL VIEW

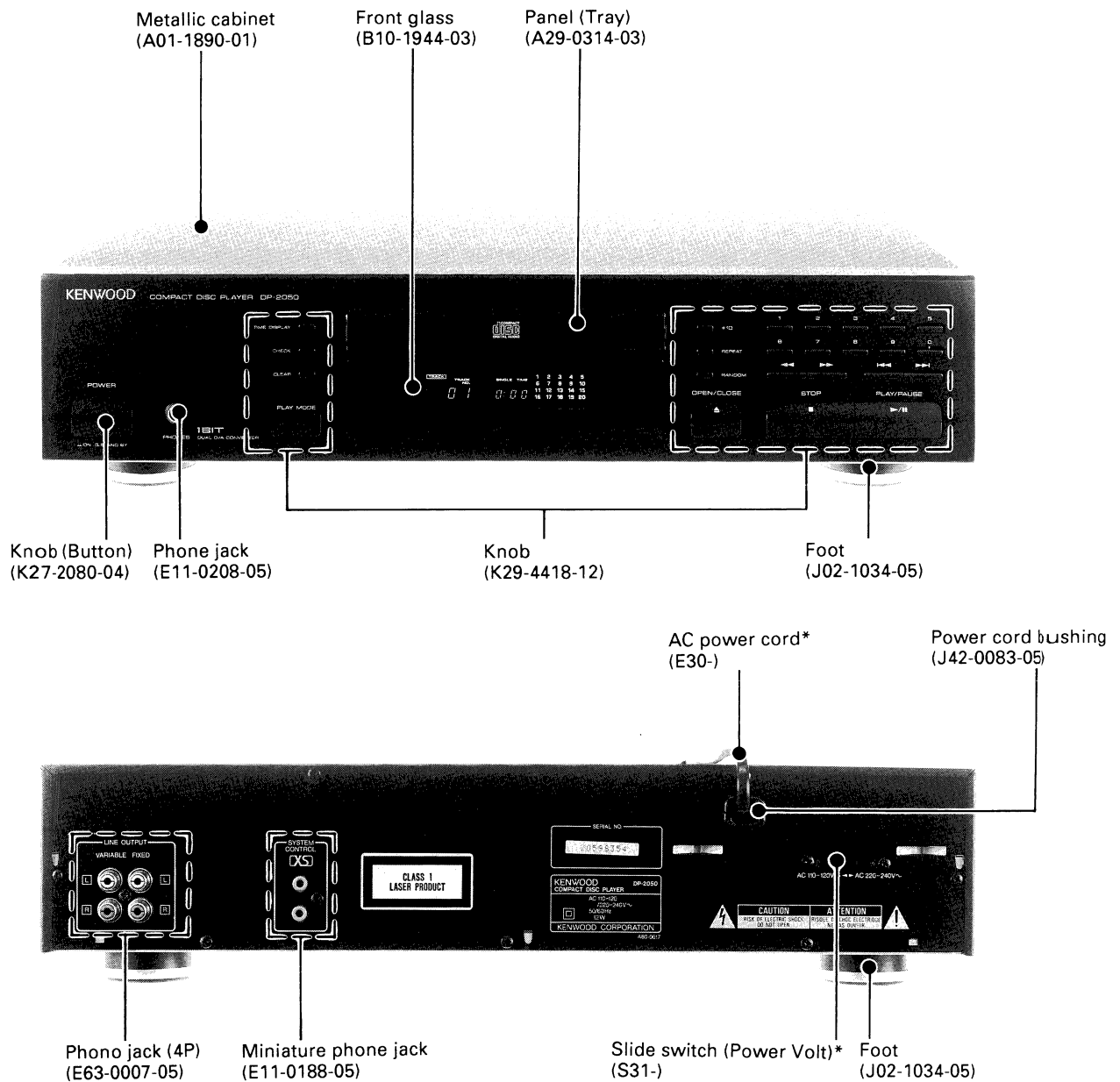
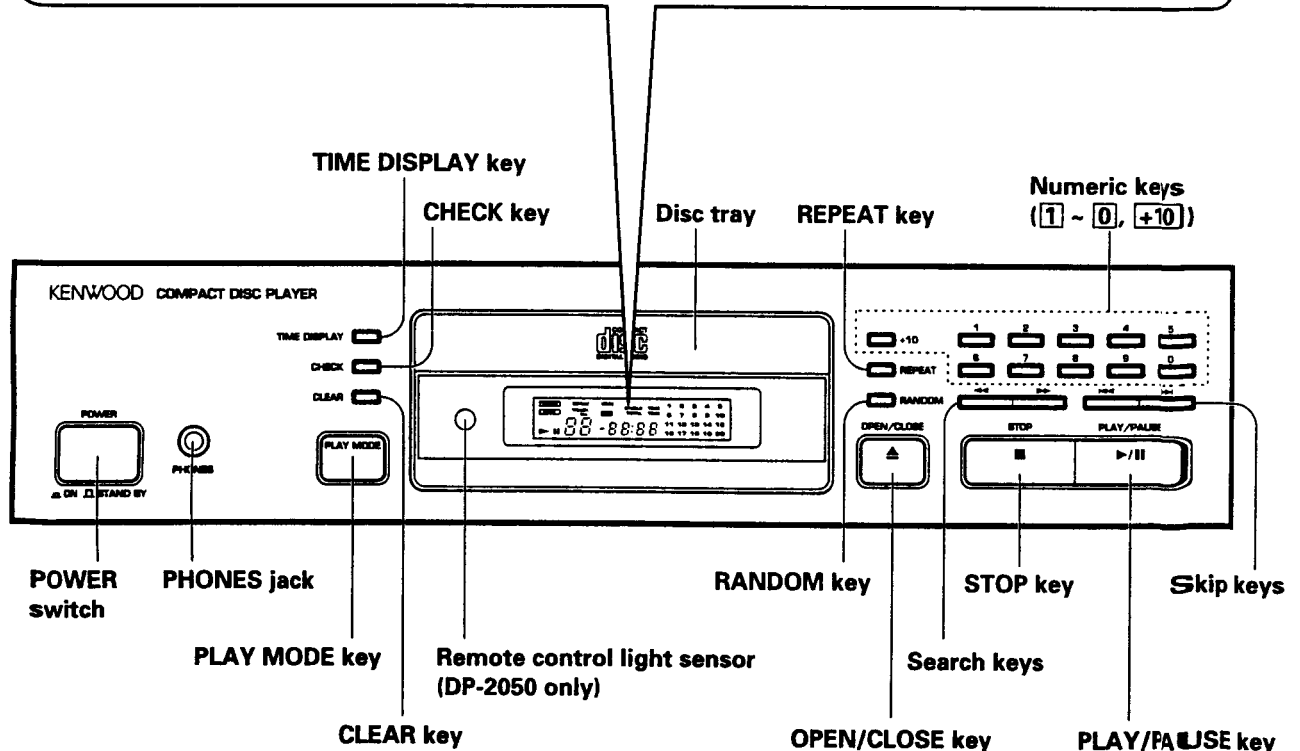
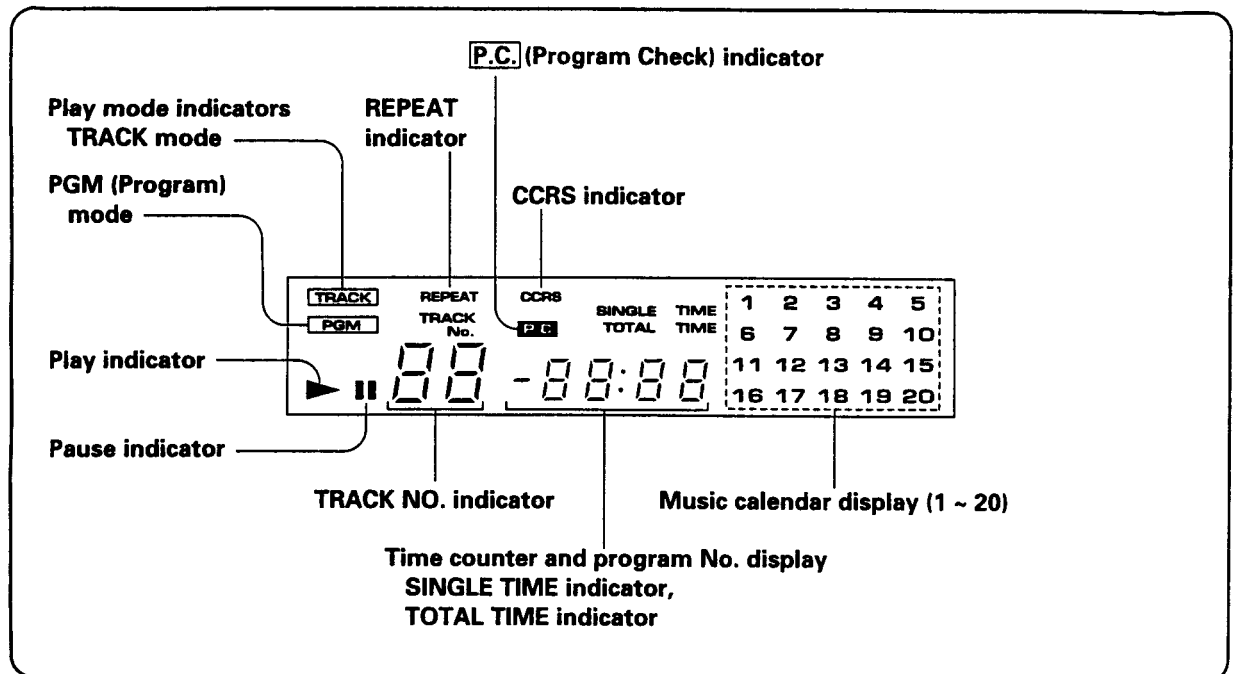


Photo is DP-2050.

*** Refer to parts list on page 34.**

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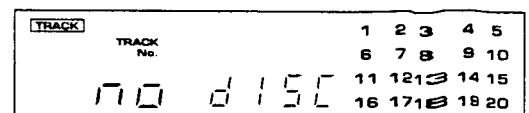
CONTROLS AND INDICATORS



Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

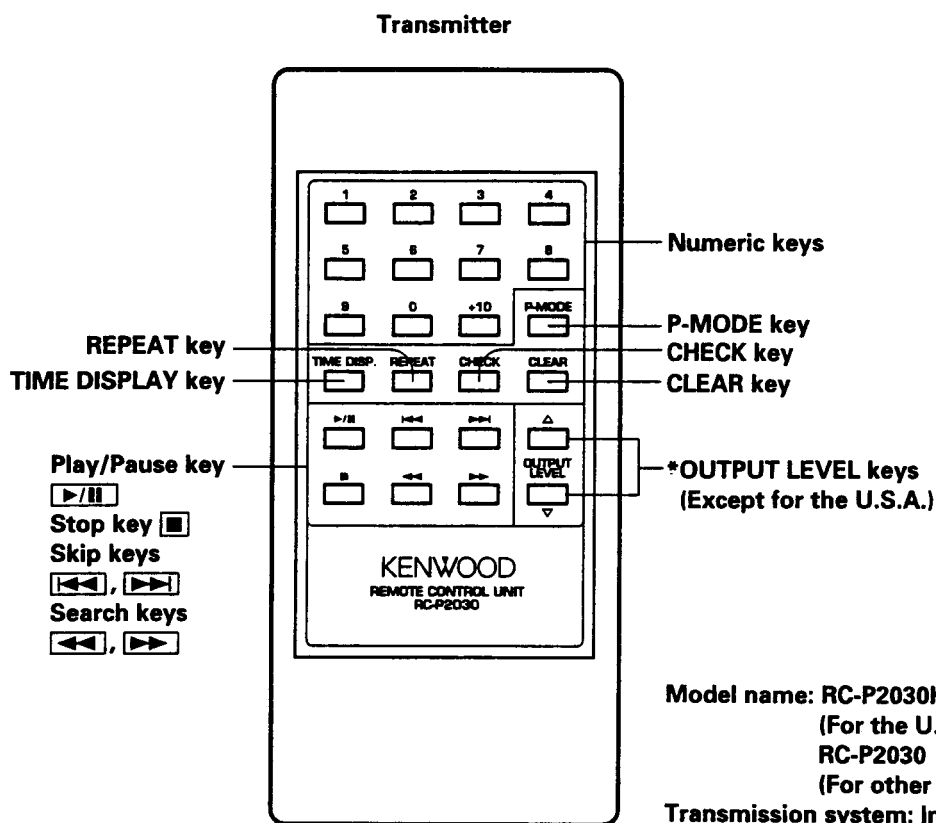
1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



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REMOTE CONTROL/CAUTION

The keys marked * are provided only on the remote control unit.



CAUTION

This instruction manual is used for two models.
Model availability and features (functions) may differ depending on the country and sales area.

Points of difference			Model		DP-2050		DP-1050
					For the U.S.A.	For other countries	
Accessories	Remote control unit	RC-P2030K	○	Not equipped	Not equipped		
		RC-P2030 (OUTPUT LEVEL keys)	Not equipped	○	Not equipped		
	Batteries	R6/AA	○	○	Not equipped		
Rear panel		LINE OUTPUT (FIXED)	○	○	○		
		LINE OUTPUT (VARIABLE)	Not equipped	○	Not equipped		

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DISASSEMBLY FOR REPAIR

1. How to Disassemble

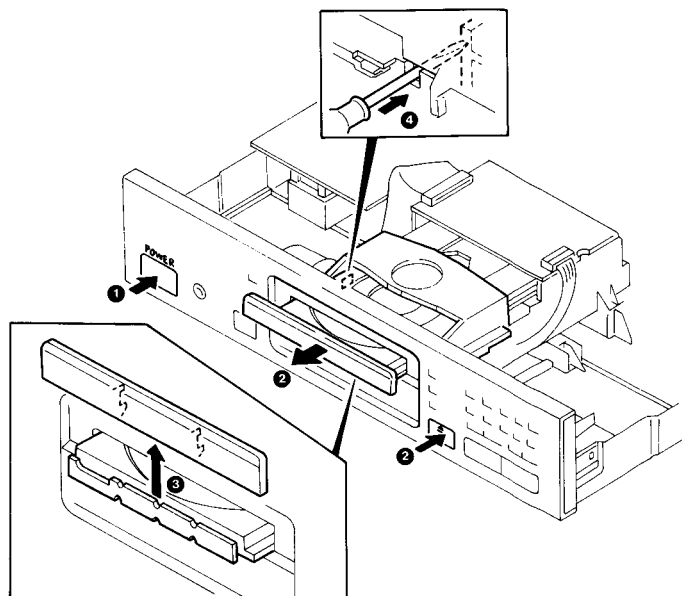
* Remove the metallic cabinet before disassembling.

1. Push power switch to ON (1).

2. Push OPEN key (2)

3. Remove the tray panel (3).

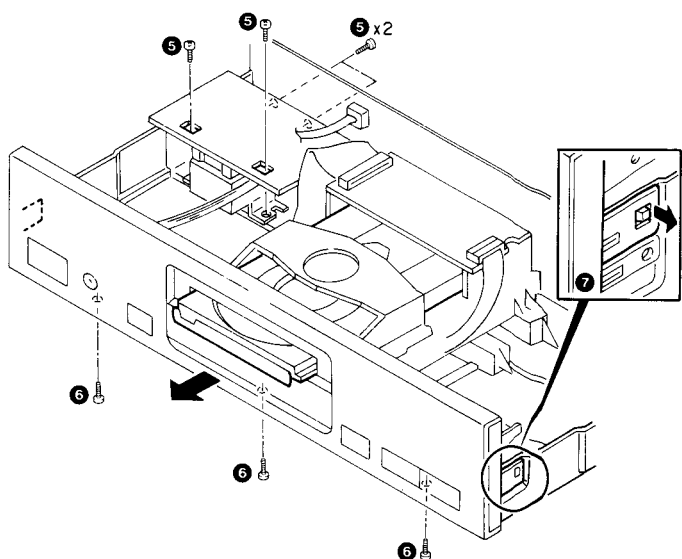
Note : When tray doesn't come out in tray-out mode, insert the screw driver to left-side hole of mechanism and push the slider to right-wards. (4)



4. Remove 4 screws (5).

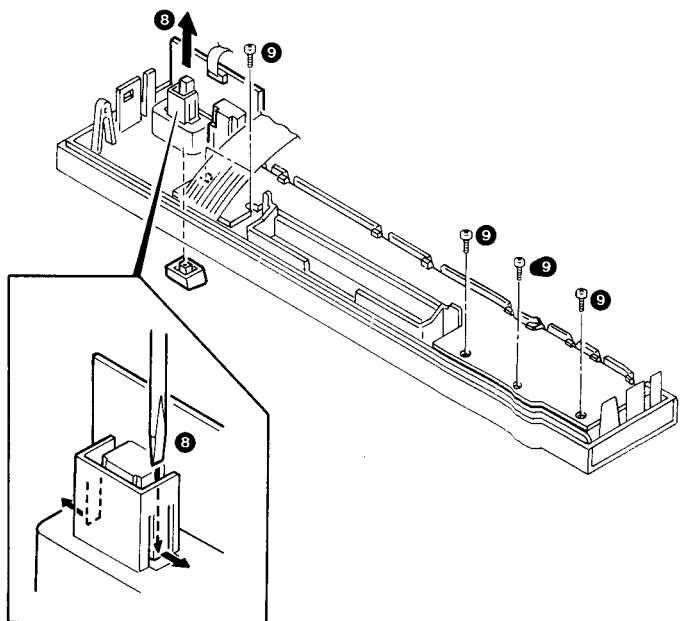
5. Remove 3 screws (6).

6. Remove panel-catchers from chassis (7).



7. Push knob-hooker (8).

8. Remove 5 screws and pc board (9).



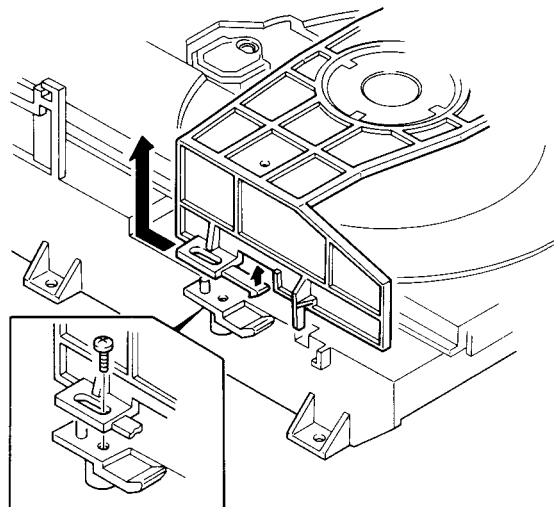
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DISASSEMBLY FOR REPAIR

2. How to Remove Clamper

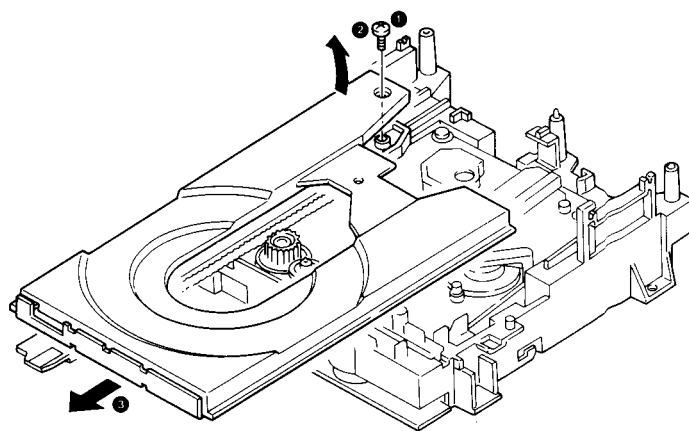
1. Remove the cabinet.
2. Remove both-sides-catchers of clamper ass'y and slide it back-wards.
3. Lift the clamper ass'y.

Note : If broken catcher, use screw (2.6x8:N89-2608-46) to fix it.



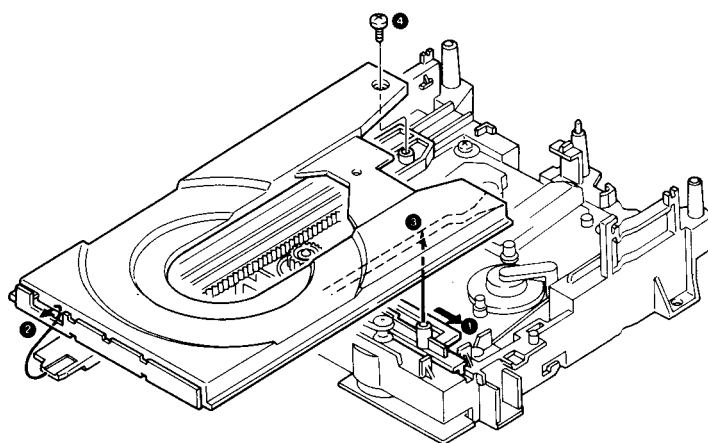
3. How to Remove Tray

1. Turn power switch off after tray is open.
2. Remove screw (❶).
3. Lift the tray (❷).
4. Slide the tray front-wards and remove it (❸).



4. How to Mount Tray

1. Slide slider fully right-wards and pull out tray gear front-wards (❶).
2. Insert tray gear in slit of tray (❷).
3. Set tray-back-groove to boss of slider (❸).
4. Fix tray with screw (❹).

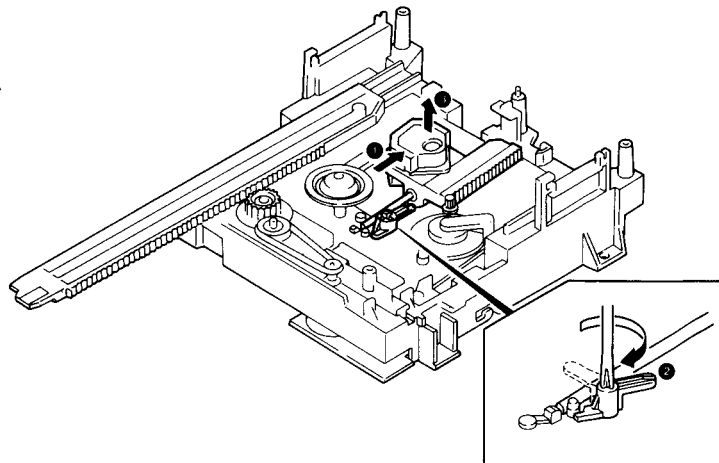


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DISASSEMBLY FOR REPAIR

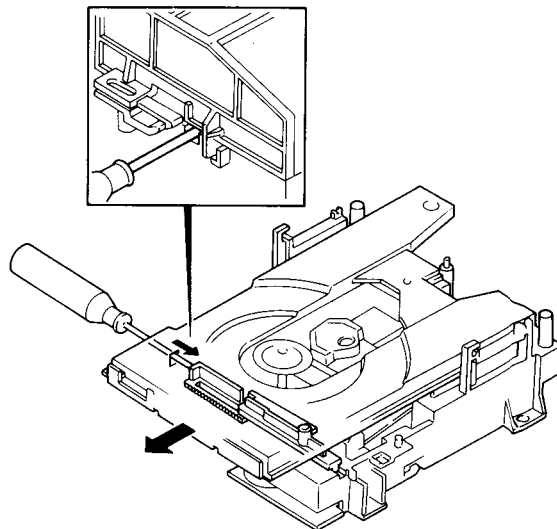
5. How to Replace Pickup

1. Remove clumper ass'y and set tray-open.
2. Move pickup at center position of its all travel (❶).
3. Turn rod stopper (❷) and lift pickup ass'y (❸).

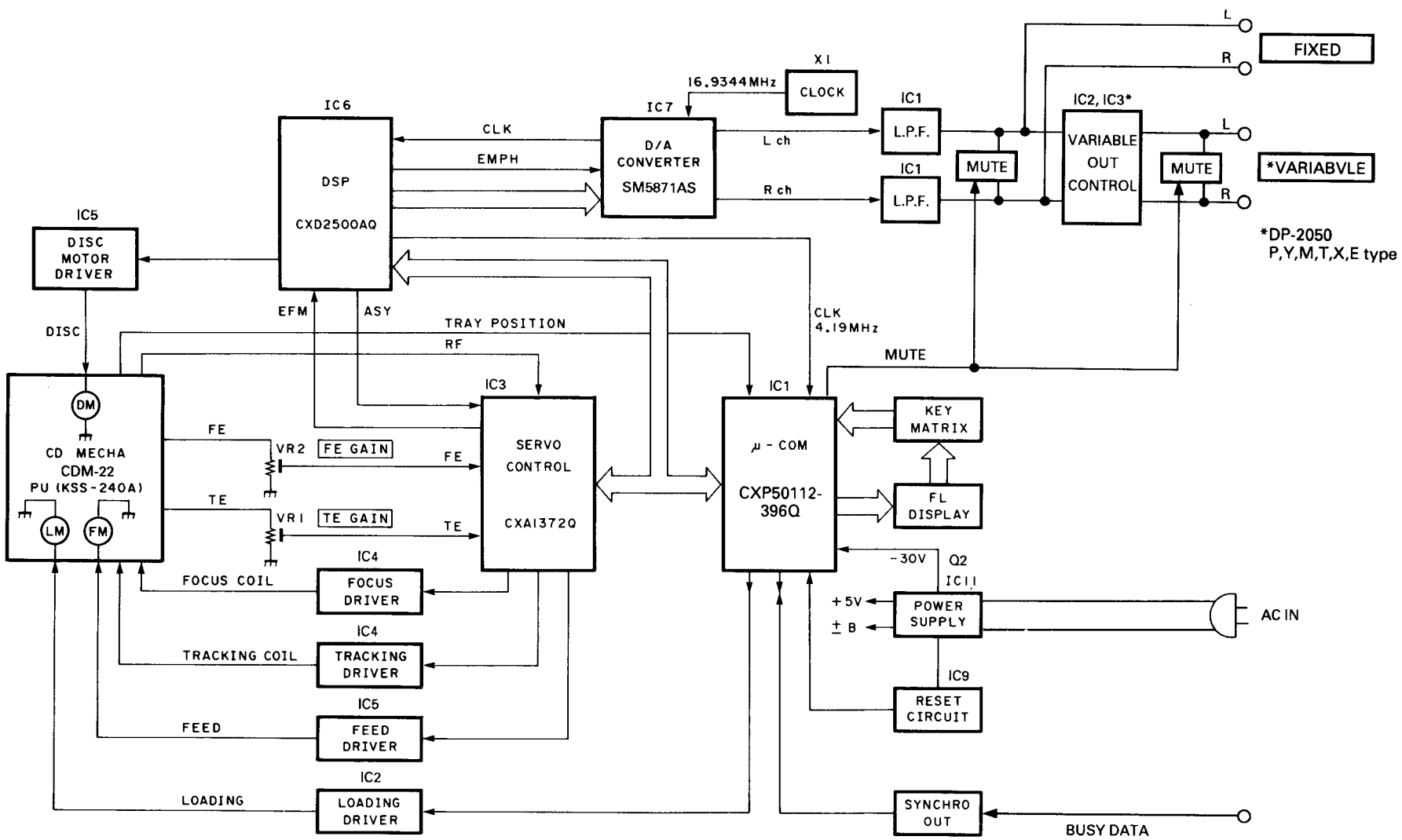


6. How to Open Tray when Tray Not Come Out

1. Insert screw driver to left-side hole of mechanism ass'y.
2. Push slider right-wards.



BLOCK DIAGRAM



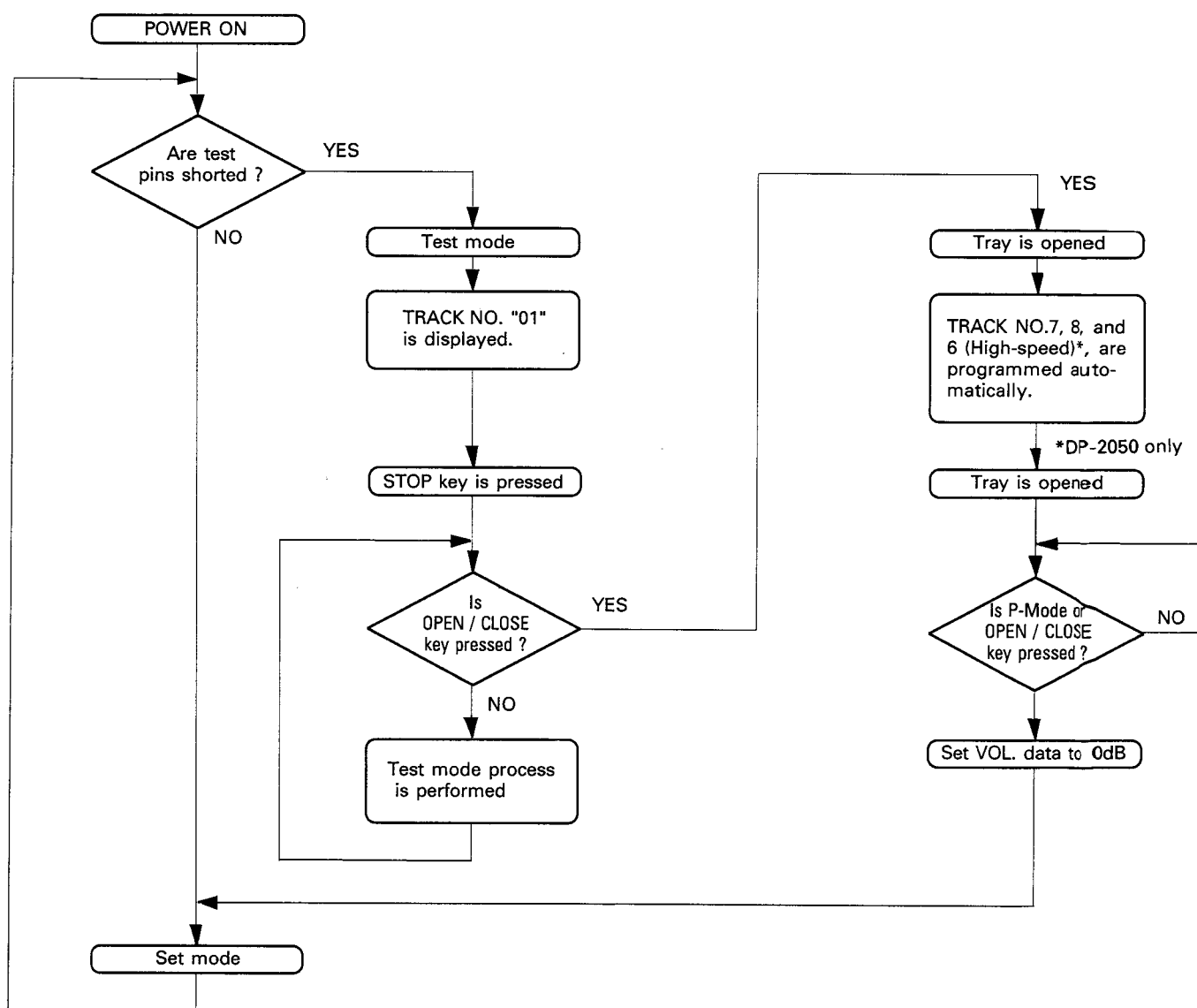
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CIRCUIT DESCRIPTION

1. Test mode

1-1. Setting the test mode

This microprocessor built in this unit can be put to TEST MODE by just short-circuiting the test pins (CN 7 1pin and 2 pin).



CIRCUIT DESCRIPTION

1-2. Key and functions valid test mode

No.	Input key	Function	Track No. display
1	PLAY	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo ON (4) Mute OFF	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Disc Track No. and Single time are displayed.
2	CHECK	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo OFF (4) Mute ON	TRACK NO. 03
3	STOP	(1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo OFF	TRACK NO. 01
4	UP ▶▶	Turns all FL display lamps ON.	TRACK NO. 88
5	DOWN ◀◀	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88
6	TIME DISPLAY	The contents of the time display can be selected between 2 functions. → Single time ↓ ← Total time	-
7	RANDOM*	Set playback mode to Normal or High-speed. Normal speed : EDIT goes OFF High-speed : EDIT lights	-
8	P. MODE	Track No. 7, 8, and 6 (High-speed)* are programmed and playback from Track No. 7. The test mode is canceled.	-
9	OPEN/CLOSE	When the tray is opened then closed. Track No. 7, 8, and 6, (High-speed)* are programmed and set is in STOP mode. The test mode is canceled.	TRACK NO. 00

*DP-2050 only

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CIRCUIT DESCRIPTION

2-2. Pin functions

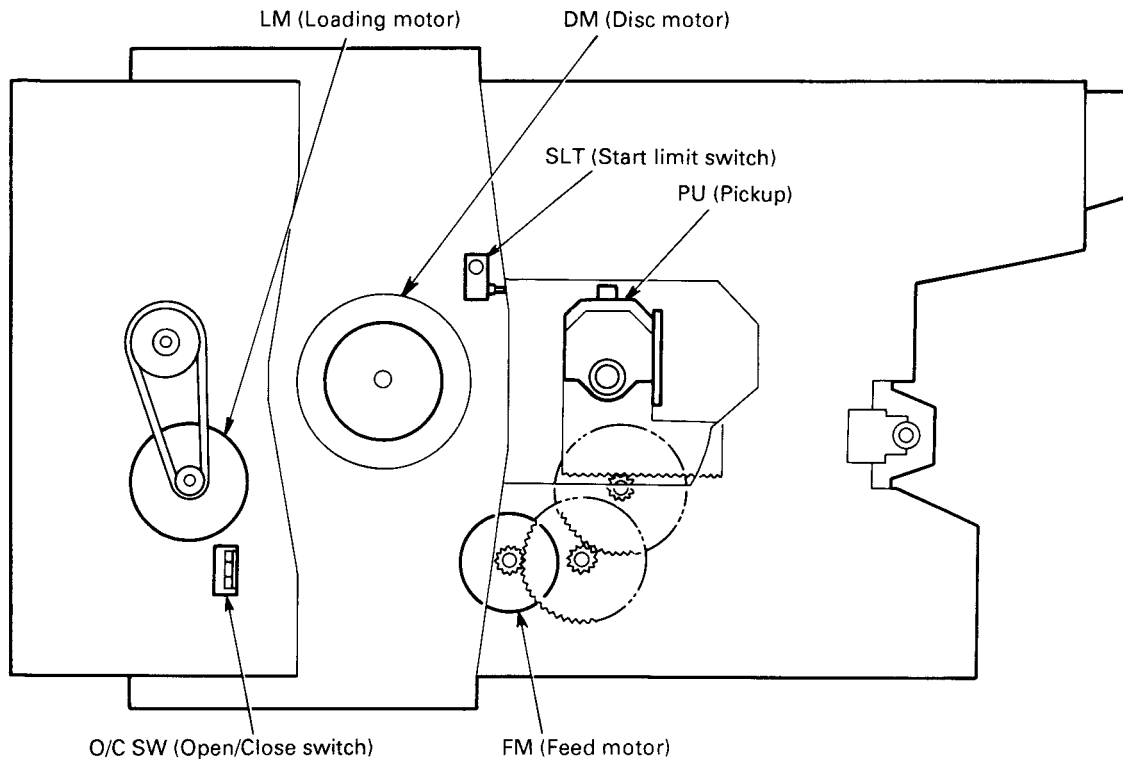
Pin NO.	Pin name	I/O	Function
1	NC	–	–
2	NC	–	–
3	NC	–	–
4	NC	–	–
5	Sa	O	Display segments a
6	Sb	O	Display segments b
7	Sc	O	Display segments c
8	Sd	O	Display segments d
9	Se	O	Display segments e
10	Sf	O	Display segments f
11	Sg	O	Display segments g
12	Si	O	Display segments i
13	Sj	O	Display segments j
14	Sk	O	Display segments k
15	Sl	O	Display segments l
16	NC	–	–
17	NC	–	–
18	NC	–	–
19	NC	–	–
20	G9	O	Display grids and key scan 9
21	G8	O	Display grids and key scan 8
22	G7	O	Display grids and key scan 7
23	G6	O	Display grids and key scan 6
24	G5	O	Display grids and key scan 5
25	G4	O	Display grids and key scan 4
26	G3	O	Display grids and key scan 3
27	G2	O	Display grids and key scan 2
28	G1	O	Display grids and key scan 1
29	SCOR	I	SCOR signal from CXD2500AQ
30	TX	–	–
31	TXE	I	GND
32	RST	I	Reset (Active L)
33	NC	–	–
34	VDD	–	Power supply (+5V)
35	KEY0	O	Key return 0
36	KEY1	O	Key return 1
37	KEY2	O	Key return 2
38	KEY3	O	Key return 3
39	HS	O	Normal or double speed selector (H = Double, L = Normal)
40	HS	O	Normal or double speed selector (H = Normal, L = Double)
41	SDATA	I/O	DATA signal of serial system control
42	SBUSY	I/O	BUSY signal of serial system control
43	EC	–	–
44	SOCK	O	Reading clock for Q data
45	NC	–	–
46	SUBQ	I	Q data signal
47	FOK	O	FOK signal from RF amp (CXA1372Q)
48	SLTSW	I	Start limit switch (H = OFF, L = ON)
49	CLSSW	I	Tray close switch (H = OFF, L = ON)
50	OPNSW	I	Tray open switch (H = OFF, L = ON)

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CIRCUIT DESCRIPTION

Pin NO.	Pin name	I/O	Function									
51	OPNM	O	Tray open / close motor control (Open mode : OPNM = H, CLSM = L Close mode : OPNM = L, CLSM = H / Other mode : OPNM = H, CLSM = H)									
52	CLSM	O	Tray open / close motor control (Open mode: OPNM = H, CLSM = L Close mode : OPNM = L, CLSM = H / Other mode : OPNM = H, CLSM = H)									
53	$\overline{\text{LDC}}$	O	Laser ON signal (H = OFF, L = ON)									
54	$\overline{\text{RMUTE}}$	O	Relay mute (H = OFF, L = ON)									
55	MUTE	O	Mute signal output to CXD2500AQ (H = ON, L = OFF)									
56	NC	–	–									
57	DATA	O	Data control signal to signal and servo processors									
58	XLAT	O	Latch control signal to signal and servo processors									
59	CLOK	O	Clock control signal to signal and servo processors									
60	NC	–	–									
61	$\overline{\text{CE}}$	O	Electricity failure detecting signal (H to L)									
62	RCI	I	Input of remote control									
63	SENS	I	Sense control signal from signal and servo processor									
64	GFS	I	Frame synchro signal from CXD2500AQ									
65	GND	–	Ground									
66	GND	–	Ground									
			Variable output table									
			<table><tr><td>–dB</td><td>0</td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td><td>14</td></tr></table>	–dB	0	2	4	6	8	10	12	14
–dB	0	2	4	6	8	10	12	14				
67	ATTa	O	ATTa	L	H	L	H	L	H			
68	ATTb	O	ATTb	L	L	H	H	L	L	H		
69	ATTc	O	ATTc	L	L	L	L	H	H	H		
70	NC	–	–									
71	Vss	–	Ground									
72	XTAL	–	–									
73	EC	–	–									
74	EXTAL	–	4.19MHz Ceralock									
75	VREF	–	Power supply (+5V)									
76	VFDP	–	Power supply (–30V)									
77	NC	–	–									
78	NC	–	–									
79	NC	–	–									
80	NC	–	–									

MECHANISM OPERATION DESCRIPTION



1. TRAY OPEN

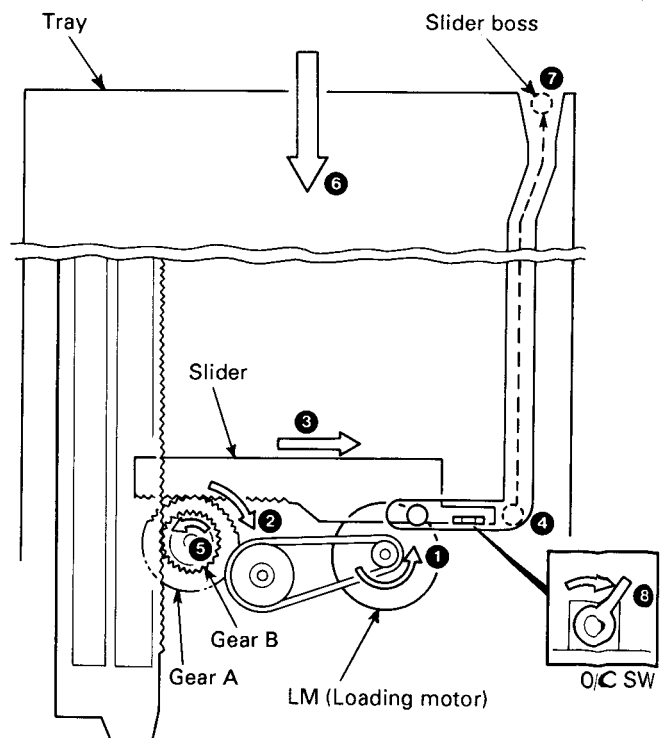
The loading motor turns to the arrow direction (1) when pushing open key.

The gear (A or B), which is not locked, starts to turn. In this case, the gear A turns to arrow direction (2) because the tray is locked by slider boss.

The slider starts to move to arrow direction (3) by the gear A. The Slider boss moves rightwards along the groove of the tray-back. The gear A and the slider stop (pickup mechanism is down) when slider boss at the groove-end of the right side (4).

At this time, the tray-lock function is free because slider boss is in front and backwards. The gear B starts to turn to arrow direction (5). The tray-open function (6) starts when the gear of the tray-back moves.

The slider boss moves rightwards slightly (7). This movement changes switch to arrow direction (8) and tray-open function is finished perfectly.



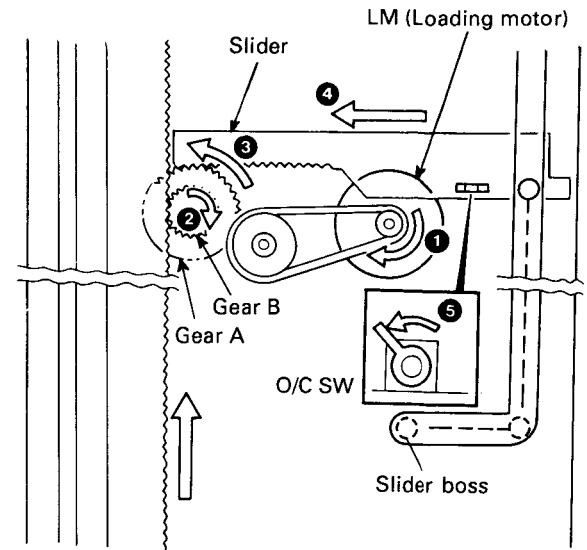
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MECHANISM OPERATION DESCRIPTION

2. TRAY CLOSE

The loading motor turns to the arrow direction (①) when pushing close key. Gear B starts to turn to arrow direction (④). The tray-close function (②) starts by the gear of the tray-back. The gear B stops to turn when slider boss moves at the point from front and backwards to right and leftwards.

The slider moves to arrow direction (④) when the gear A starts to turn (③). The lever changes switch to arrow direction (⑤), and the tray-close function is finished perfectly.



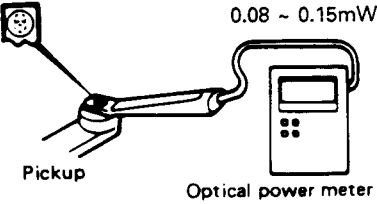
ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	LASER POWER	—	Apply the sensor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and enter the test mode. Press the MANUAL S. (▶▶) to move the pickup outwards. Press the "0" key to check that the LD emits light. Then, confirm that the display is "03".	—	On the power from 0.08 to 0.15mW, when the diffraction grating is correctly aligned with the RF level of 1.5Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(a)
2	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN4 pin 2 and 3.	Connect a LPF to CN4 pin 2-3, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	FOCUS GAIN VR2	Two VTVMs should read the same value.	(b)
3	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN4 pin 5 and 6.	Connect a LPF to CN4 pin 5-6, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	TRACKING GAIN VR1	Two VTVMs should read the should value.	(c)

(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent.
LPF: around 47kohms+390pF or so.

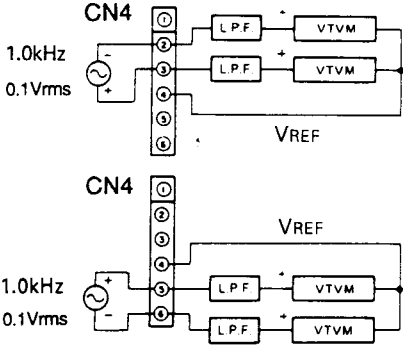
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(a) Laser Power

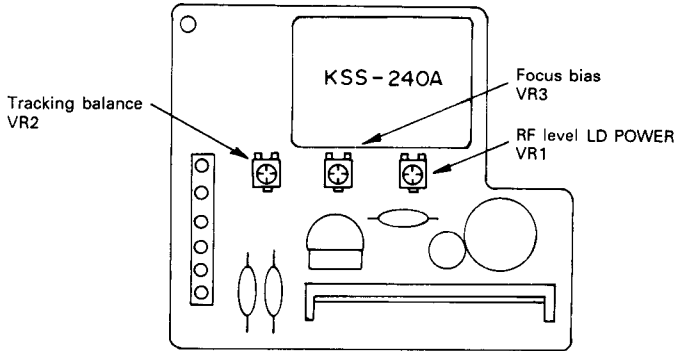


(b) Focus Gain, (c) Tracking Gein

Focus gain :



Tracking gain :



CAUTION

Pickup (KSS-240A) is adjustment free in repairing, please don't disassemble and adjust it.

REGLAGE/ABGLEICH

N°	ARTICLE	ENTREE	SORTIE	MISE EN FONCTIONNEMENT DU LECTEUR	POINT DE CONTROLE	CRITERE D'APPRECIATION	FIG.
1	PUISSANCE DU LASER	—	Appliquer la partie sensible de l'indicateur de puissance optique sur la lentille de lecture	Court-circuiter les broches "TEST" et sélectionner le mode d'essai. Appuyer sur la touche "MANUAL S. (▶▶)" pour déplacer la tête de lecture vers l'extérieur. Appuyer sur la touche "0" pour vérifier que le disque laser émet une lumière. S'assurer ensuite que l'écran affiche "03".	—	Lorsqu'en cas de puissance de 0,08 à 0,15mW, le réseau de diffraction est correctement aligné sur un niveau de haute fréquence de 1,5 Vc-c ou plus et un niveau d'erreur de piste (servomécanisme ouvert) de 1,5 Vc-c ou plus, la tête de lecture est admissible.	(a)
2	GAIN DE FOCALISATION	Disque d'essai de type 4 Appliquer un signal de 1,0kHz, 0,1Veff. sur les broches 2 et 3 du CN4.	Brancher un filtre passe-bas aux broches 2-3 du CN4 et y connecter un oscilloscope ou deux voltmètres à CA.	Appuyer sur la touche "PLAY". S'assurer que l'écran affiche "05".	GAIN DE FOCALISATION VR2	Deux voltmètres doivent indiquer la même valeur.	(b)
3	GAIN D'ALIGNEMENT	Disque d'essai de type 4 Appliquer un signal de 1,0kHz, 0,1Veff. aux broches 5 et 6 du CN4.	Brancher un filtre passe-bas aux broches 5-6 du CN4 et y connecter un oscilloscope ou deux voltmètres à CA.	Appuyer sur la touche "PLAY". S'assurer que l'écran affiche "05".	GAIN D'ALIGNEMENT VR1	Deux voltmètres doivent indiquer la même valeur.	(c)

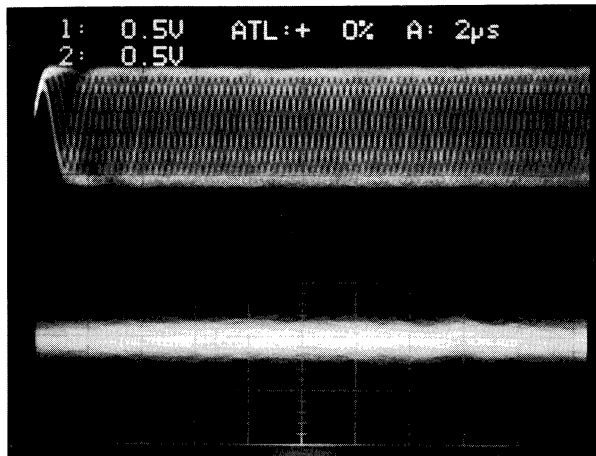
(NOTE) Disque de type 4 : DISQUE D'ESSAI SONY YEDS-18 ou équivalent
Filtre passe-bas : autour de 47kohms+390pF environ

Nr.	Gegenstand	Eingang	Ausgang	Player	Abgleich	Abgleichen für	Abb
1	LASER-SPANNUNG	—	Sensorteil des optischen Leistungsmesser auf die Pickup-Linse setzen.	TEST-Kontakte kurzschließen und auf Testbetrieb schalten. MANUAL S. (▶▶) drücken, um den Pickup nach oben zu bewegen. Taste "0" drücken, um zu prüfen, ob der LD Licht ausstrahlt. Sicherstellen, daß im Display "03" angezeigt wird.	—	Bei Eingangsleistung von 0,08 bis 0,15 mW ist der Pickup in Ordnung, wenn das optische Gitter korrekt auf den RF-Pegel von mindestens 1,5 Vss ausgerichtet ist und der TE-Pegel.	(a)
2	FOKUS-VERSTÄRKUNG	Test-Disc Typ 4. Den Kontakten 2 und 3 von CN4 ein Signal von 1,0kHz, 0,1Veff zuleiten.	Ein Tiefpaßfilter an die Kontakte 2 und 3 von CN4 anschließen, und ein Oszilloskop oder zwei Wechselstrom-Voltmeter anschließen.	Die PLAY-Taste drücken. Sicherstellen, daß im Display "05" angezeigt wird.	FOCUS GAIN VR2 (Potentiometer)	Zwei VTVM müssen den gleichen Wert zeigen.	(b)
3	SPURHALTE-VERSTÄRKUNG	Test-Disc Typ 4. Den Kontakten 5 und 6 von CN4 ein Signal von 1,0kHz, 0,1Veff zuleiten.	Ein Tiefpaßfilter an die Kontakte 5 und 6 von CN4 anschließen, und ein Oszilloskop oder zwei Wechselstrom-Voltmeter anschließen.	Die PLAY-Taste drücken. Sicherstellen, daß im Display "05" angezeigt wird.	TRACKING GAIN VR1 (Potentiometer)	Zwei VTVM müssen den gleichen Wert zeigen.	(c)

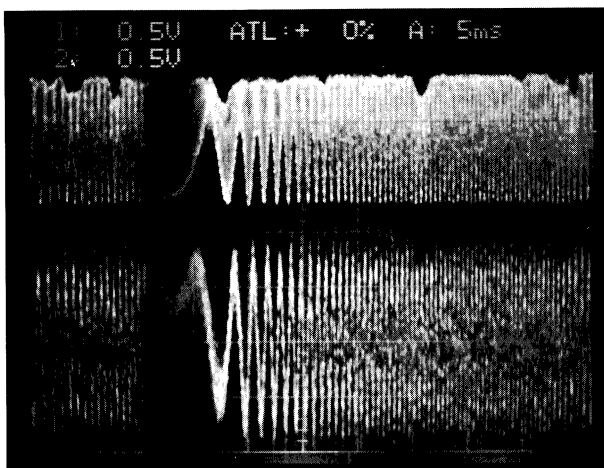
(Zur Beachtung) Test-Disc Typ 4 : Sony YEDS-18 Test-Disc oder gleichwertig.
Tiefpaßfilter : ca. 47kOhm+390pF

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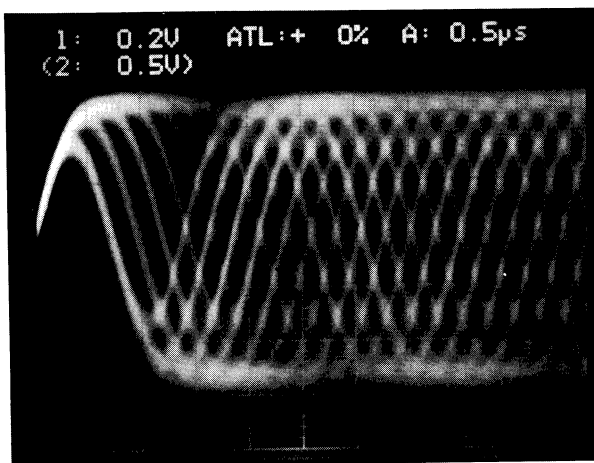
ADJUSTMENT



- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 16 μ s after RF signal, in the form of a projection.



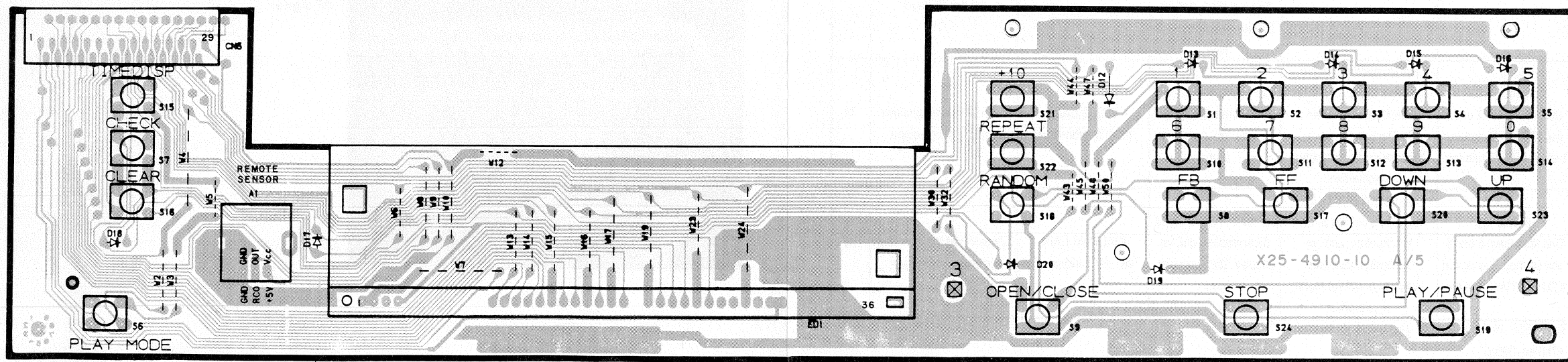
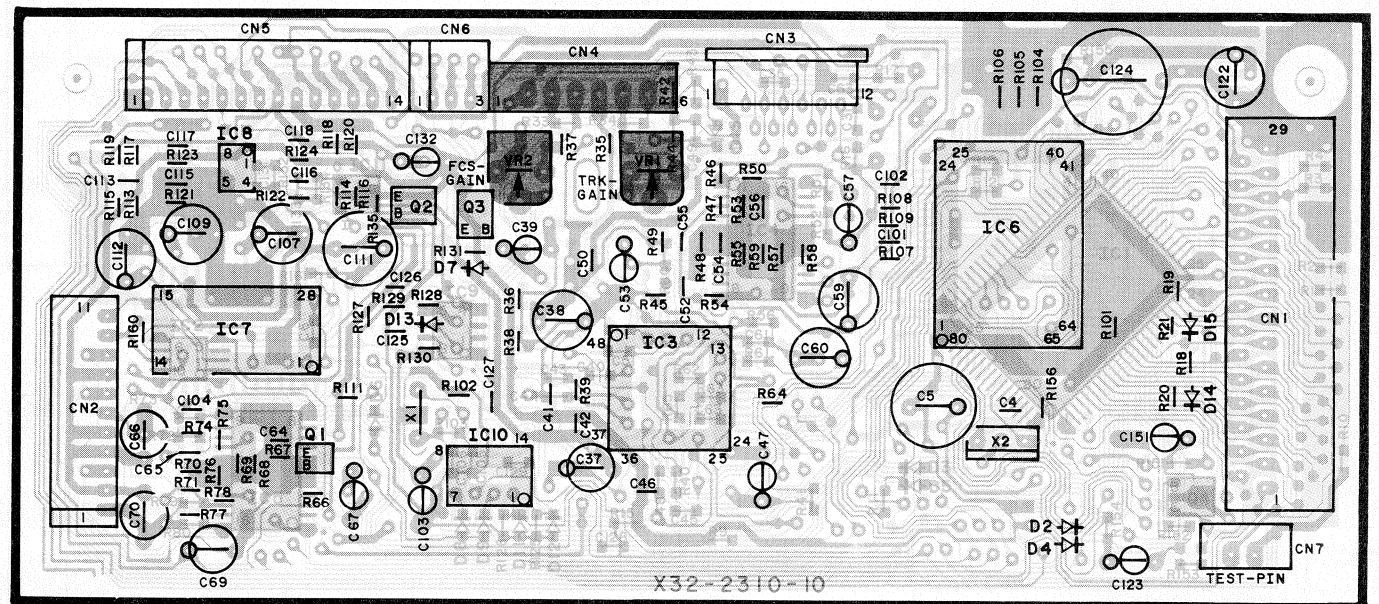
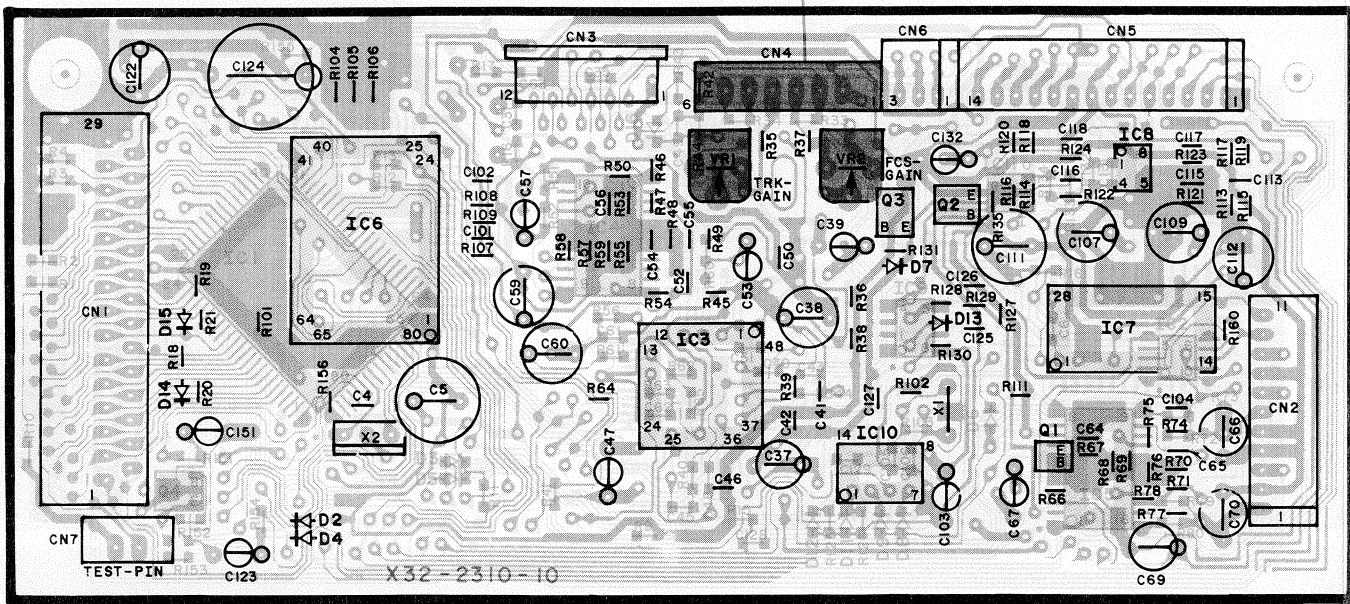
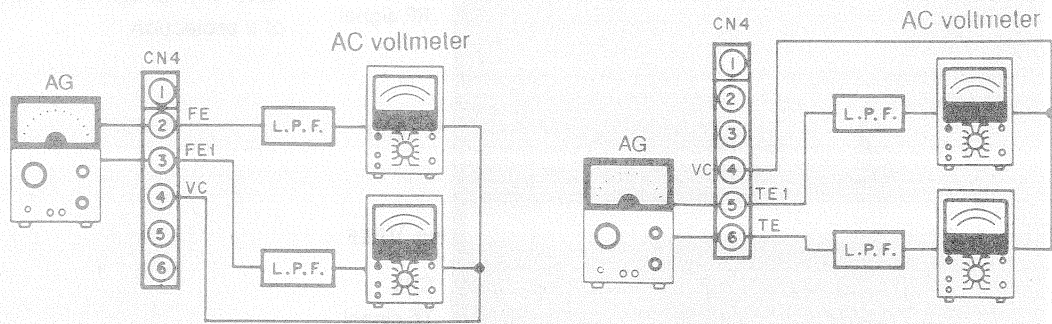
- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)

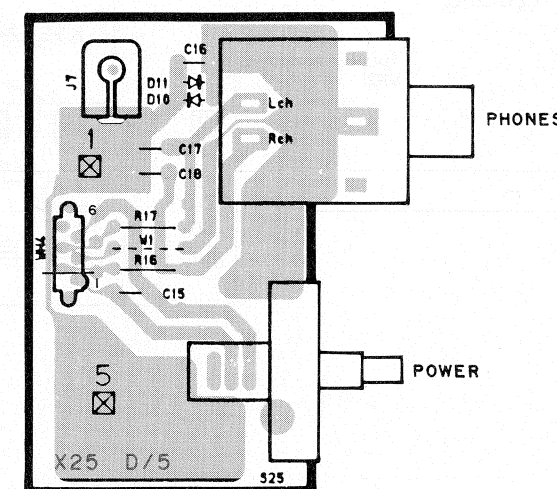
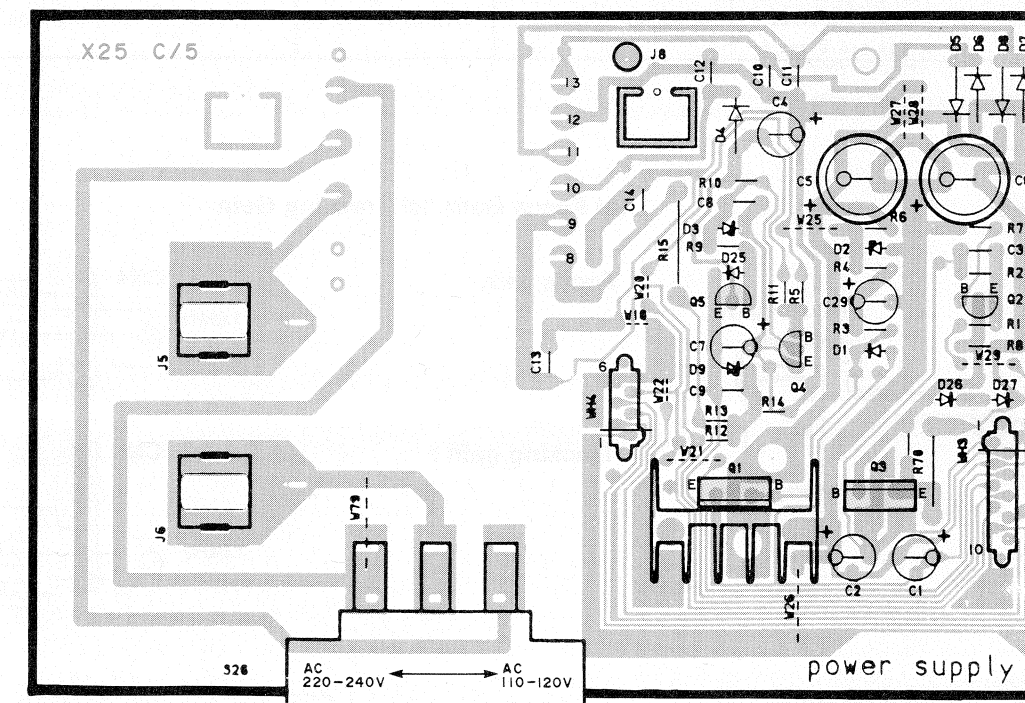
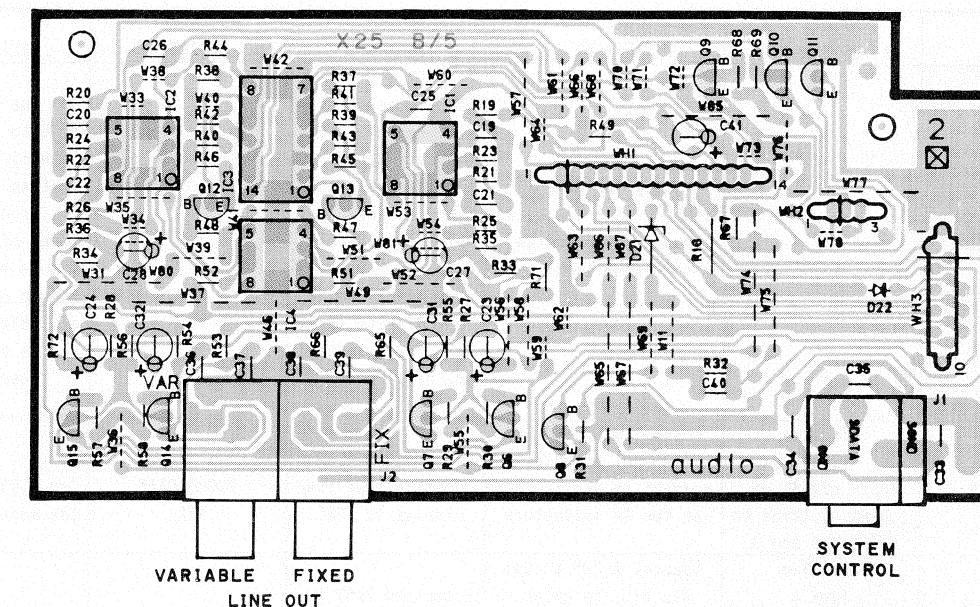
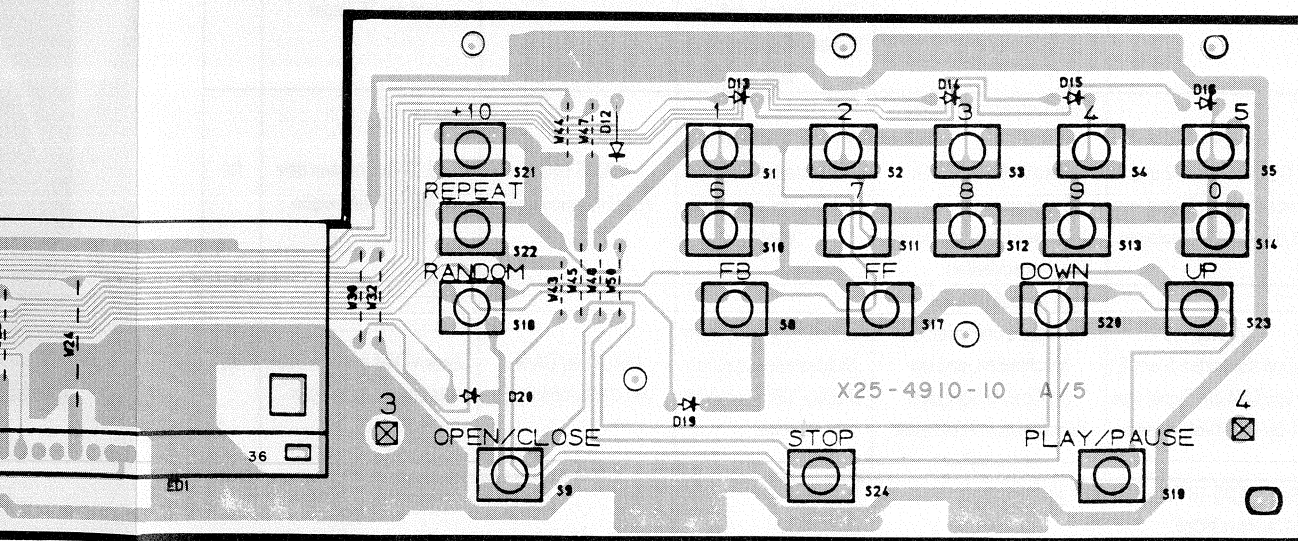
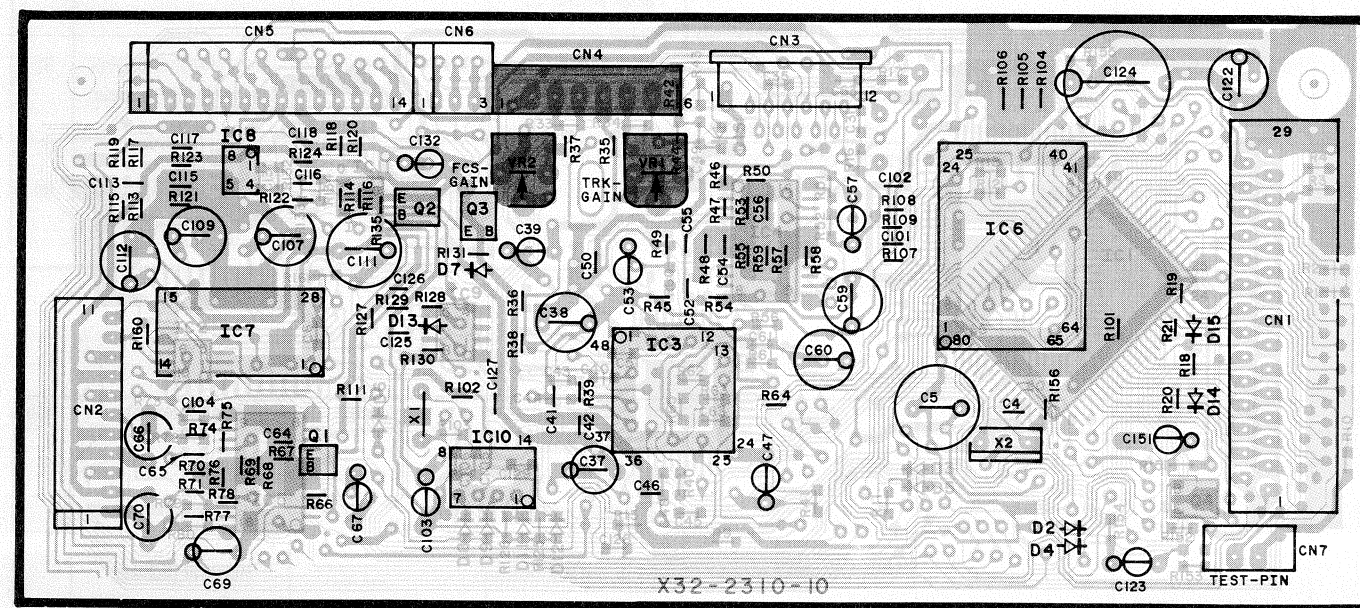
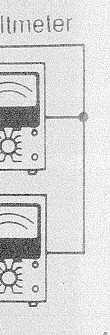


- RF signal in test mode (PLAY).

(b) Focus gain
: Two VTVMs should read
the same value.

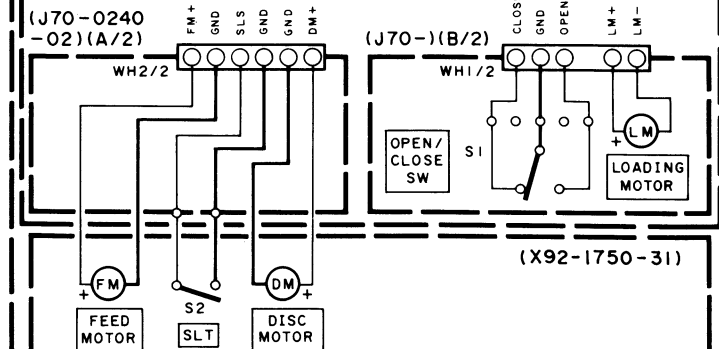
(c) Tracking gain
: Two VTVMs should read
the same value.



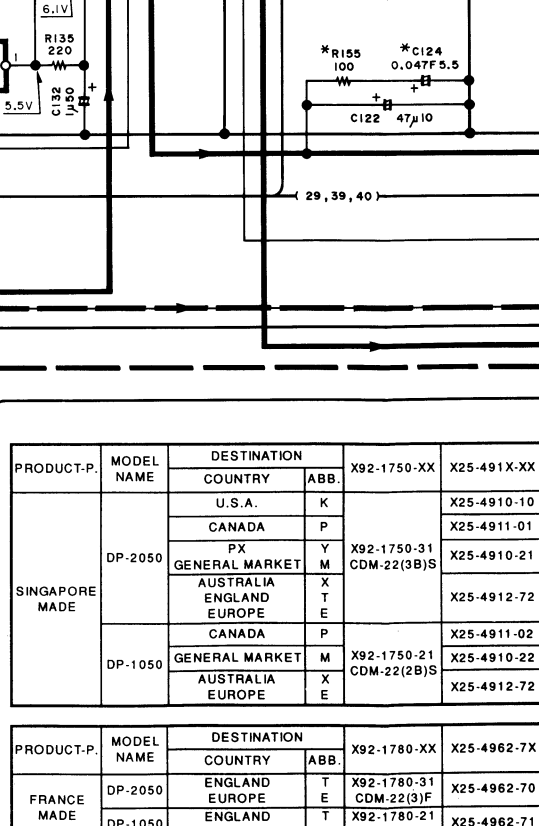
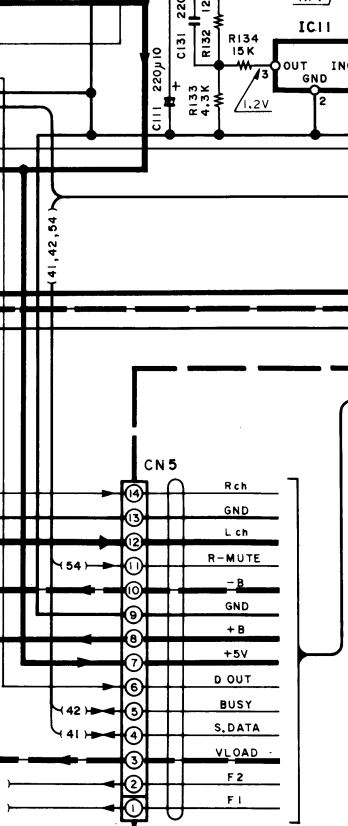
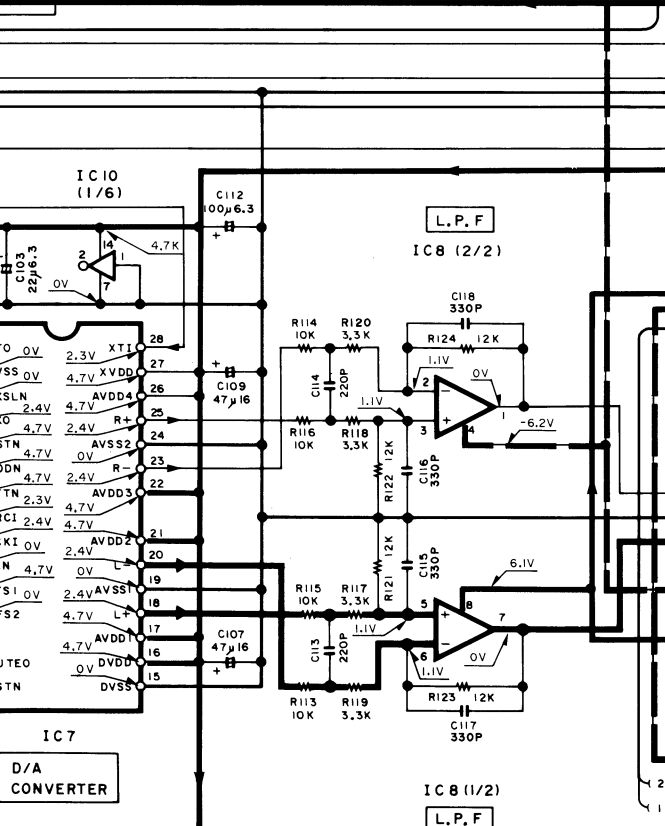
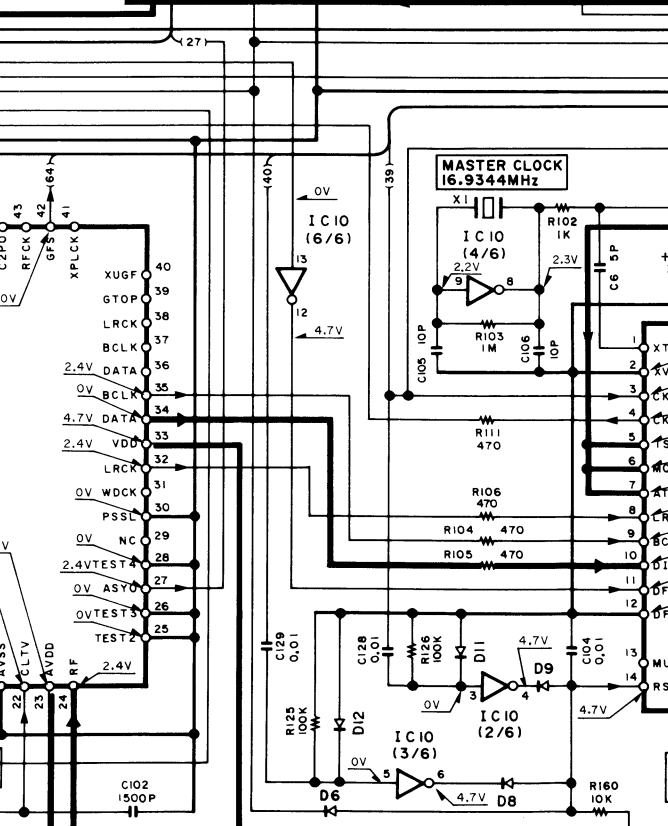
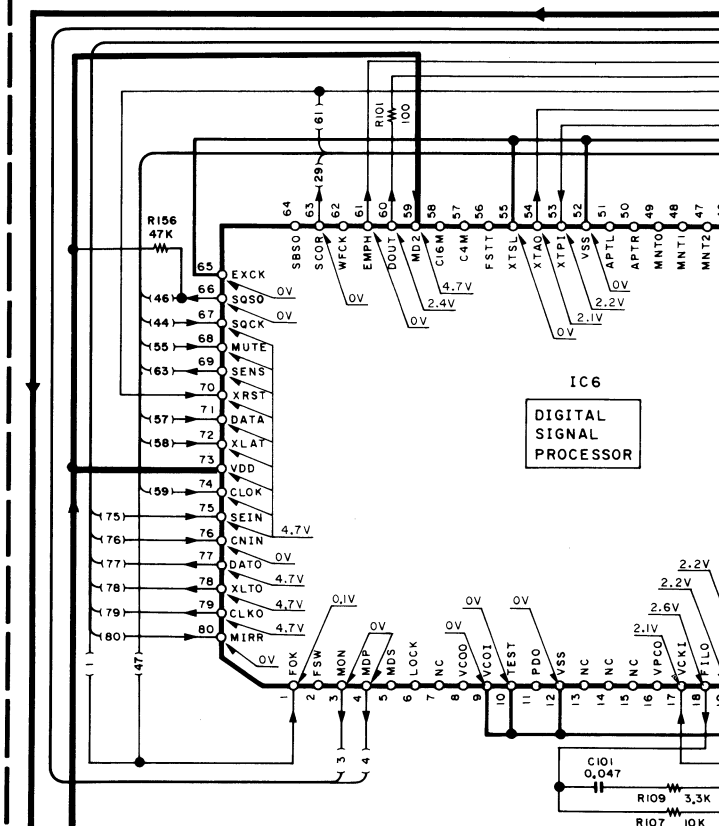
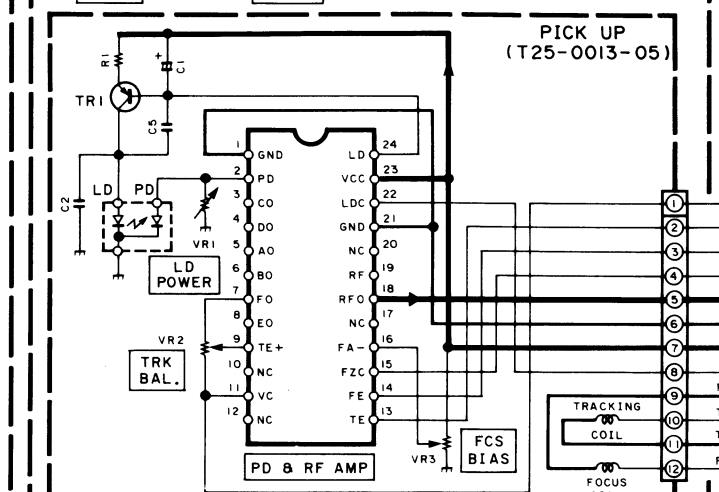
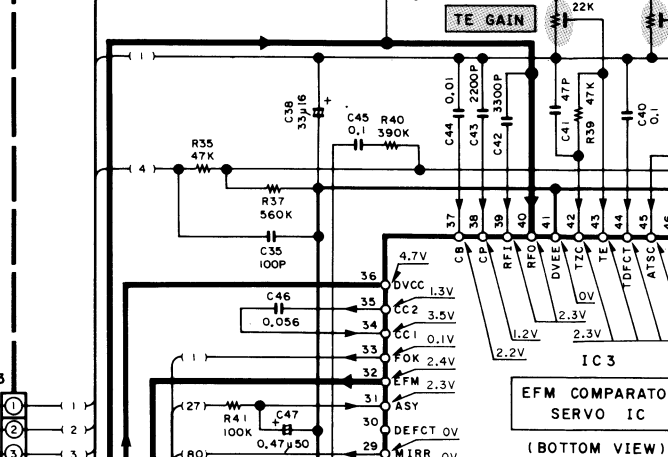


MECHA. ASS'Y (CDM-22(3B)S)

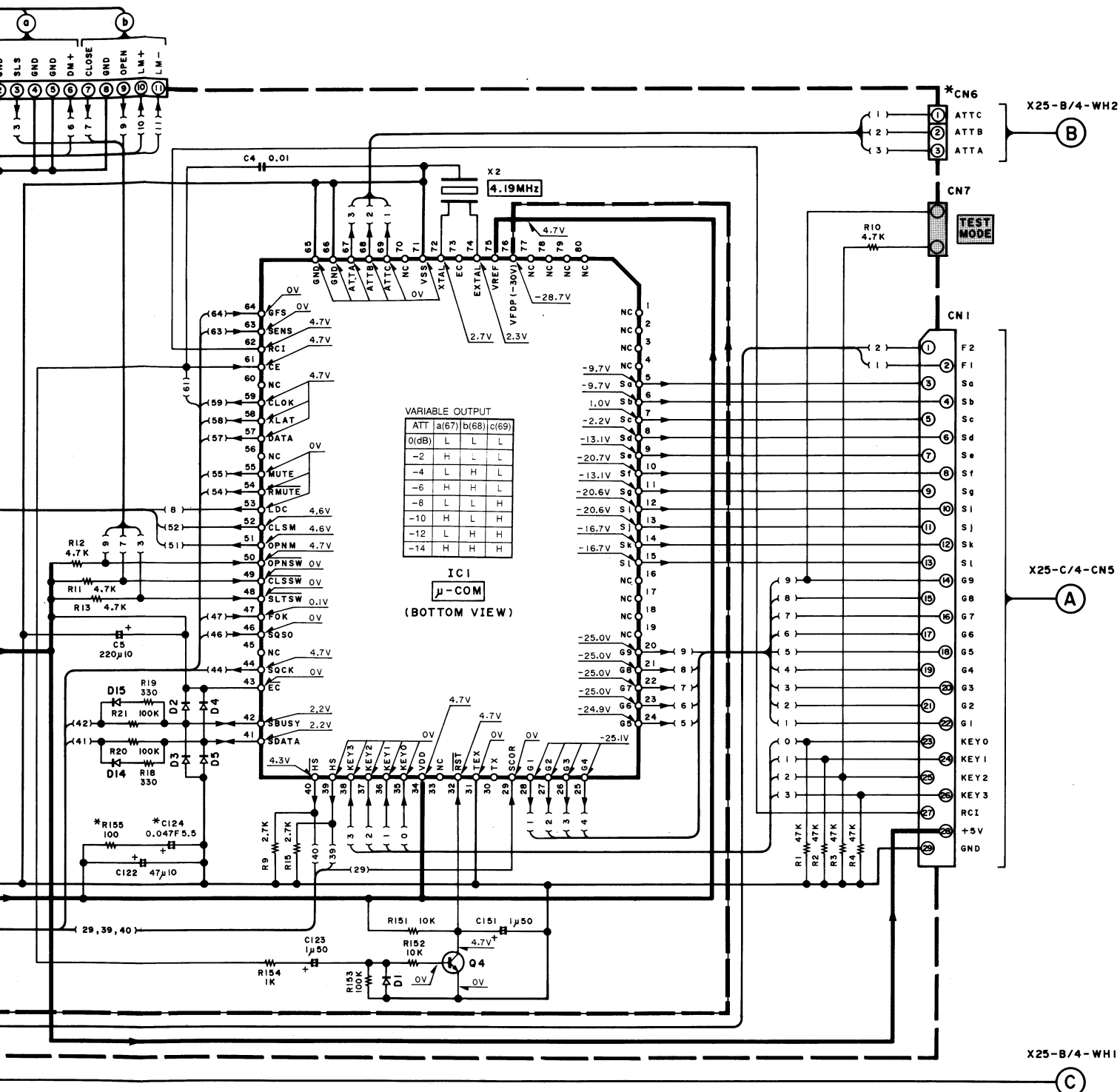
(X25-4910-10)



(X32-2310-10)



PRODUCT-P.	MODEL NAME	DESTINATION	COUNTRY	ABB.	X92-1750-XX	X25-491X-XX
SINGAPORE MADE	DP-2050	PX GENERAL MARKET	U.S.A.	K	X92-1750-XX	X25-4910-10
			CANADA	P	X92-1750-31	X25-4911-01
			AUSTRALIA	X	CDM-22(3B)S	X25-4910-21
	DP-1050	GENERAL MARKET	U.S.A.	K	X92-1750-21	X25-4912-72
			CANADA	P	X92-1750-31	X25-4911-02
			AUSTRALIA	X	CDM-22(2B)F	X25-4910-22
FRANCE MADE	DP-2050	ENGLAND	U.S.A.	K	X92-1780-XX	X25-4962-7X
			EUROPE	T	CDM-22(3)F	X25-4962-70
	DP-1050	ENGLAND	U.S.A.	K	X92-1780-21	X25-4962-71
			EUROPE	T	CDM-22(2)F	X25-4962-71



DESTINATION	ABB.	X92-1750-XX	X25-491X-XX	X32-2310-XX	C124	R155	CN6
COUNTRY							
U.S.A.	K		X25-4910-10				NO
CANADA	P		X25-4911-01				YES
PX	Y	X92-1750-31	X25-4910-21	X32-2310-10	YES	YES	YES
GENERAL MARKET	M	CDM-22(3B)S					
AUSTRALIA	X		X25-4912-72				YES
ENGLAND	T						
EUROPE	E						
CANADA	P		X25-4911-02				
GENERAL MARKET	M	X92-1750-21	X25-4910-22	X32-2310-11	NO	NO	NO
AUSTRALIA	X	CDM-22(2B)S					
EUROPE	E		X25-4912-72				

DESTINATION	ABB.	X92-1780-XX	X25-4962-7X	X32-2360-XX	C124	R155	CN6
COUNTRY							
ENGLAND	T	X92-1780-31	X25-4962-70	X32-2310-10	YES	YES	YES
EUROPE	E	CDM-22(3)F					
ENGLAND	T	X92-1780-21	X25-4962-71	X32-2360-11	NO	NO	NO
EUROPE	E	CDM-22(2)F					

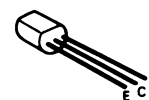
IC1 : CXP50112-396Q
IC2 : TA8409F
IC3 : CXA1372Q
IC4,5 : TA8406F
IC6 : CXD2500AQ
IC7 : SM5871AS
IC8 : NJM4565M
IC9 : XRA10393F
IC10 : TC74HCU04AF
IC11 : M5237ML

Q1 : DTC124EK
Q2 : 2SB1308(Q,R)
Q3,4 : 2SD1963Q(R,S)

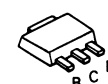
D1~9,11,12,14~16 : MA110
D13 : DTZ2.7(B) or MA8027-H

— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE

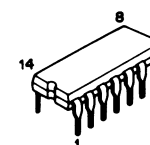
2SA1534A
2SC2878



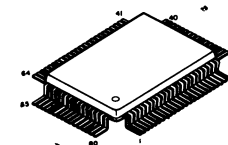
2SB1308



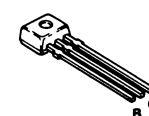
TC4066BP



CXD2500AQ



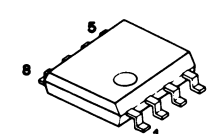
2SA1175
2SC2785



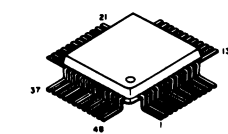
2SD1944



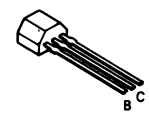
NJM4565M



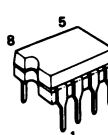
CXA1372Q



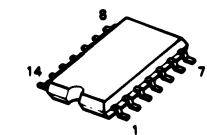
2SA933S
2SC1740S



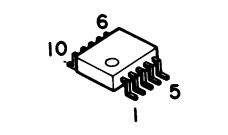
NJM4565D



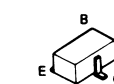
TC74HCU04AF



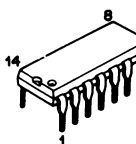
TA8409F



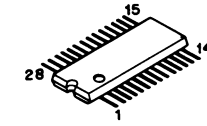
DTC124EK



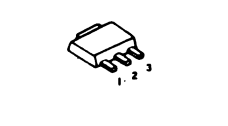
XRU4066B



SM5871AS



M5237ML



• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DP-1050/2050
KENWOOD

Y22-2930-10

X32-CN1

(A)

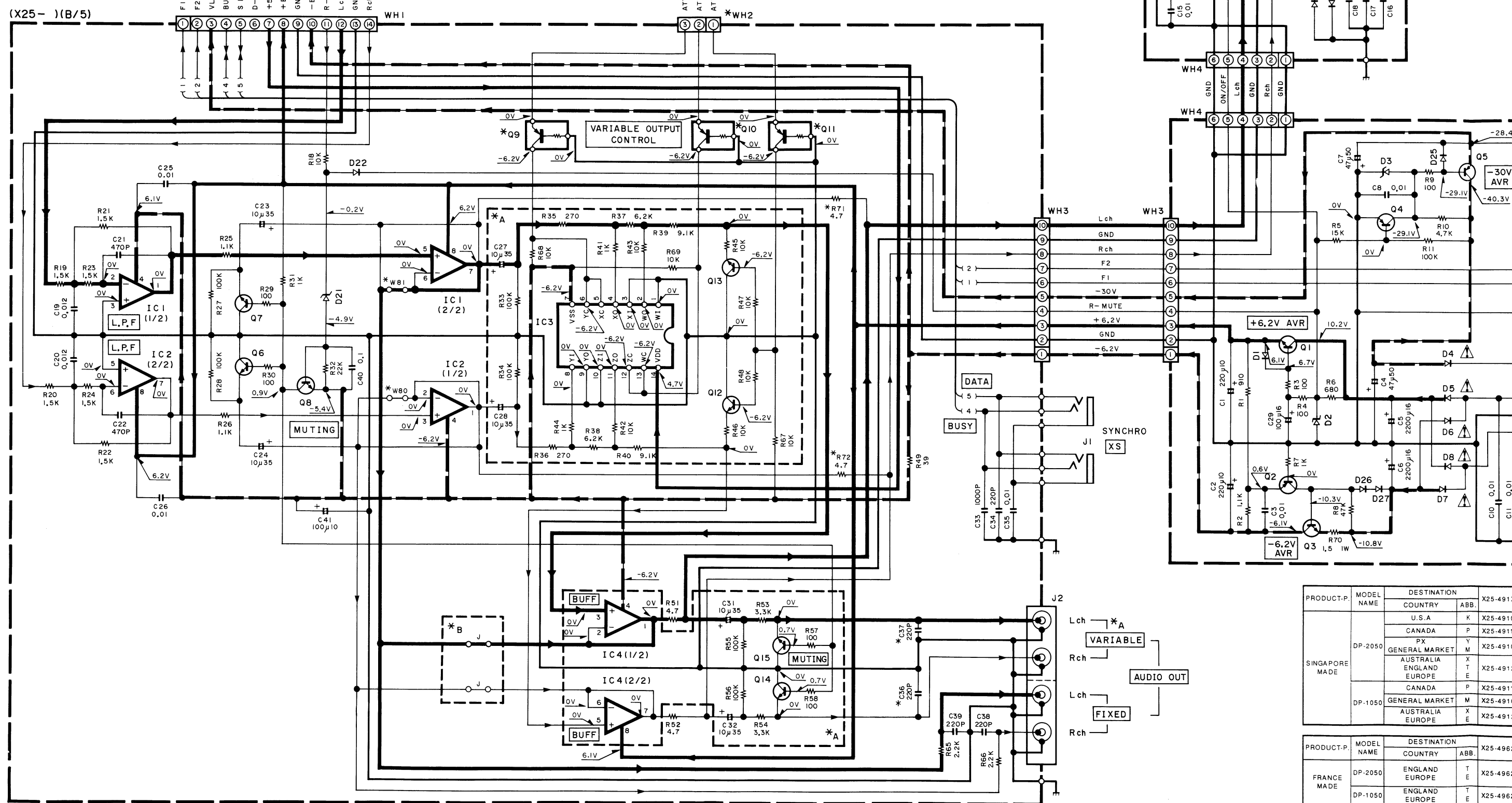
X32-CN6

(B)

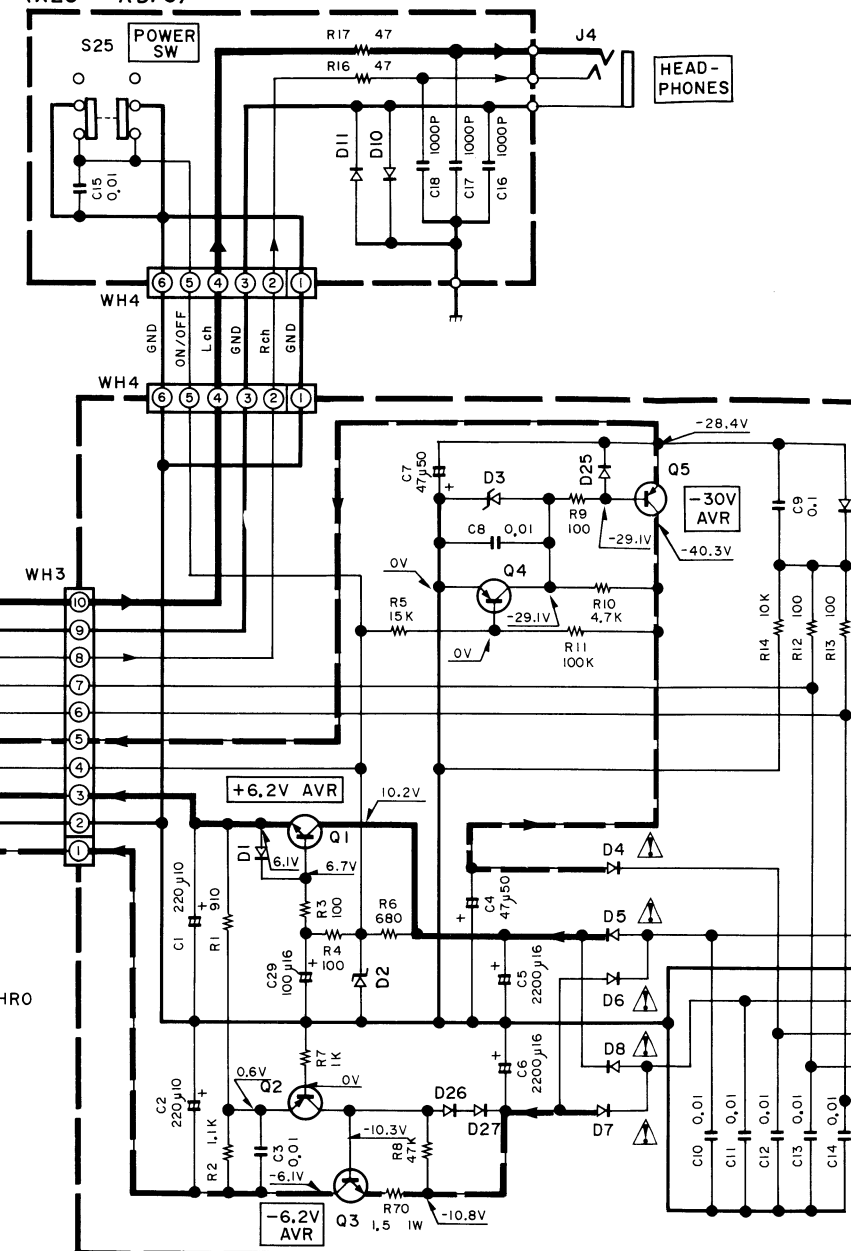
X32-CN5

(C)

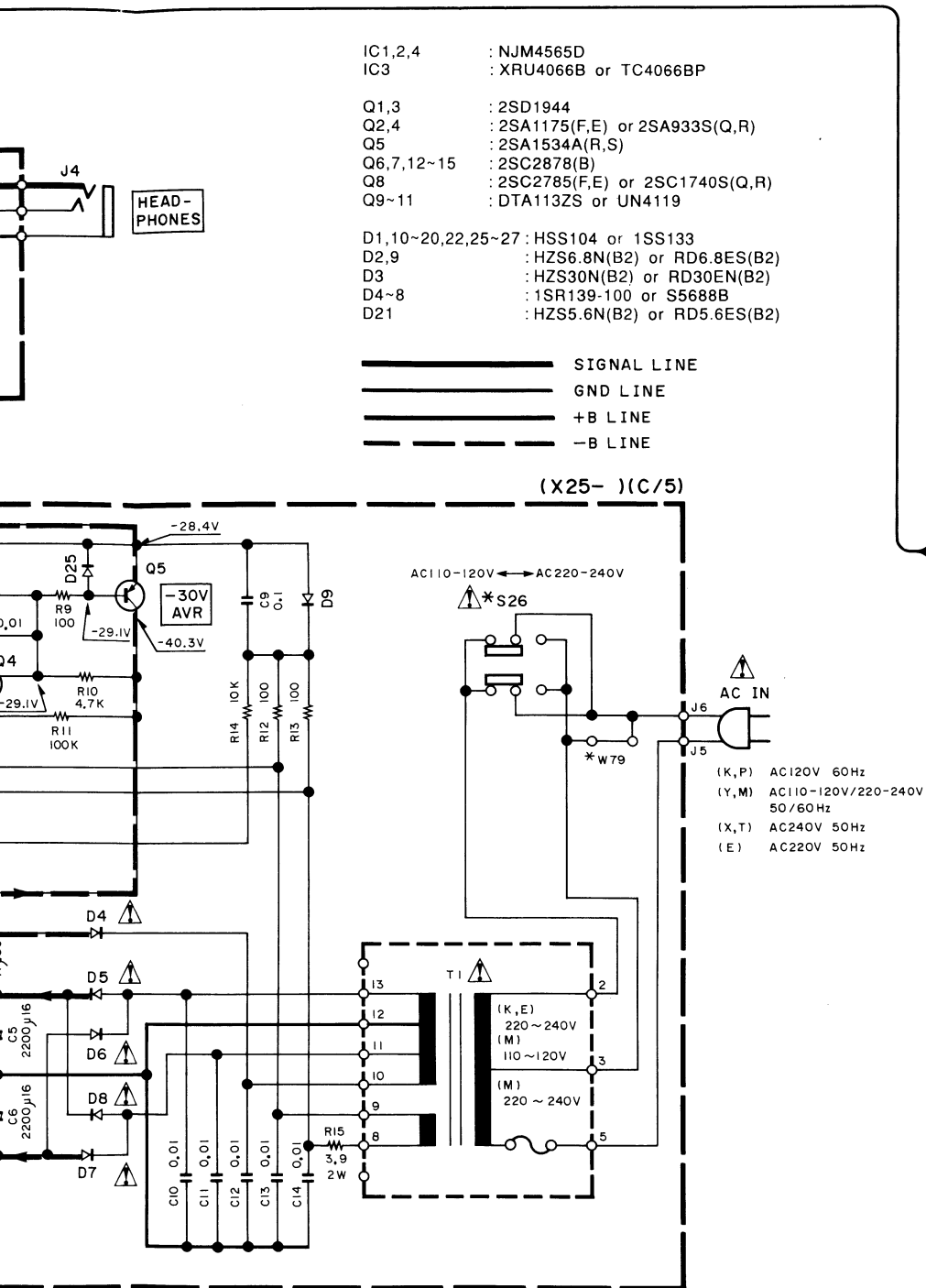
(X25-)(B/5)



(X25-)(D/5)

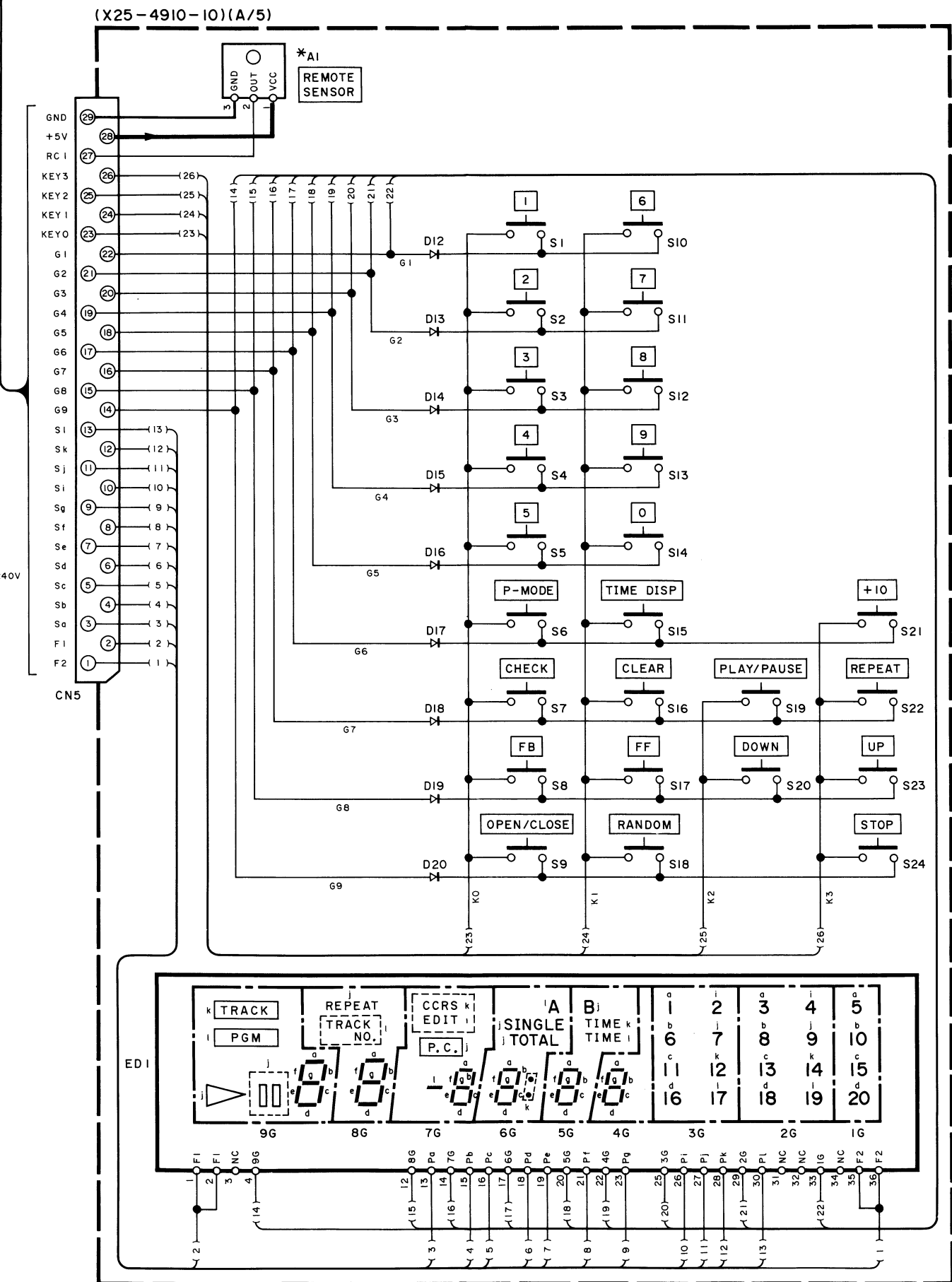


PRODUCT-P.	MODEL NAME	DESTINATION		X25-491X-XX	A	B
		COUNTRY	ABB.			
SINGAPORE MADE	DP-2050	U.S.A	K	X25-4910-10	NO	YES
		CANADA	P	X25-4911-01	YES	NO
		PX GENERAL MARKET	Y M	X25-4910-21	YES	NO
		AUSTRALIA	X T E	X25-4912-71	YES	NO
	DP-1050	CANADA	P	X25-4911-02	NO	YES
		GENERAL MARKET	M	X25-4910-22	NO	YES
FRANCE MADE	DP-2050	ENGLAND EUROPE	T E	X25-4962-70	YES	NO
		ENGLAND EUROPE	T E	X25-4962-71	NO	YES
	DP-1050	ENGLAND EUROPE	T E	X25-4962-71	NO	YES



DESTINATION		X25-491X-XX	A	B	Q9-11	R71, 72	WH2	C36, 37	S26	A1	W79	W80, 81
COUNTRY	ABB.											
U.S.A.	K	X25-4910-10	NO	YES	NO	YES	NO	NO	NO	YES	YES	YES
CANADA	P	X25-4911-01	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO
PX GENERAL MARKET	Y	X25-4910-21	YES	NO	YES	NO	YES	YES	YES	YES	NO	NO
AUSTRALIA	X											
ENGLAND	T	X25-4912-71	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO
EUROPE	E											
CANADA	P	X25-4911-02	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES
GENERAL MARKET	M	X25-4910-22	NO	YES	NO	YES	NO	NO	YES	NO	NO	YES
AUSTRALIA	X											
EUROPE	E	X25-4912-72	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES

DESTINATION		X25-4962-7X	A	B	Q9-11	R71, 72	WH2	C36, 37	S26	A1	W79	W80, 81
COUNTRY	ABB.											
ENGLAND	T	X25-4962-70	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO
EUROPE	E											
ENGLAND	T	X25-4962-71	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES
EUROPE	E											



DP-2050(K)/DP-1050(E)(2/2)

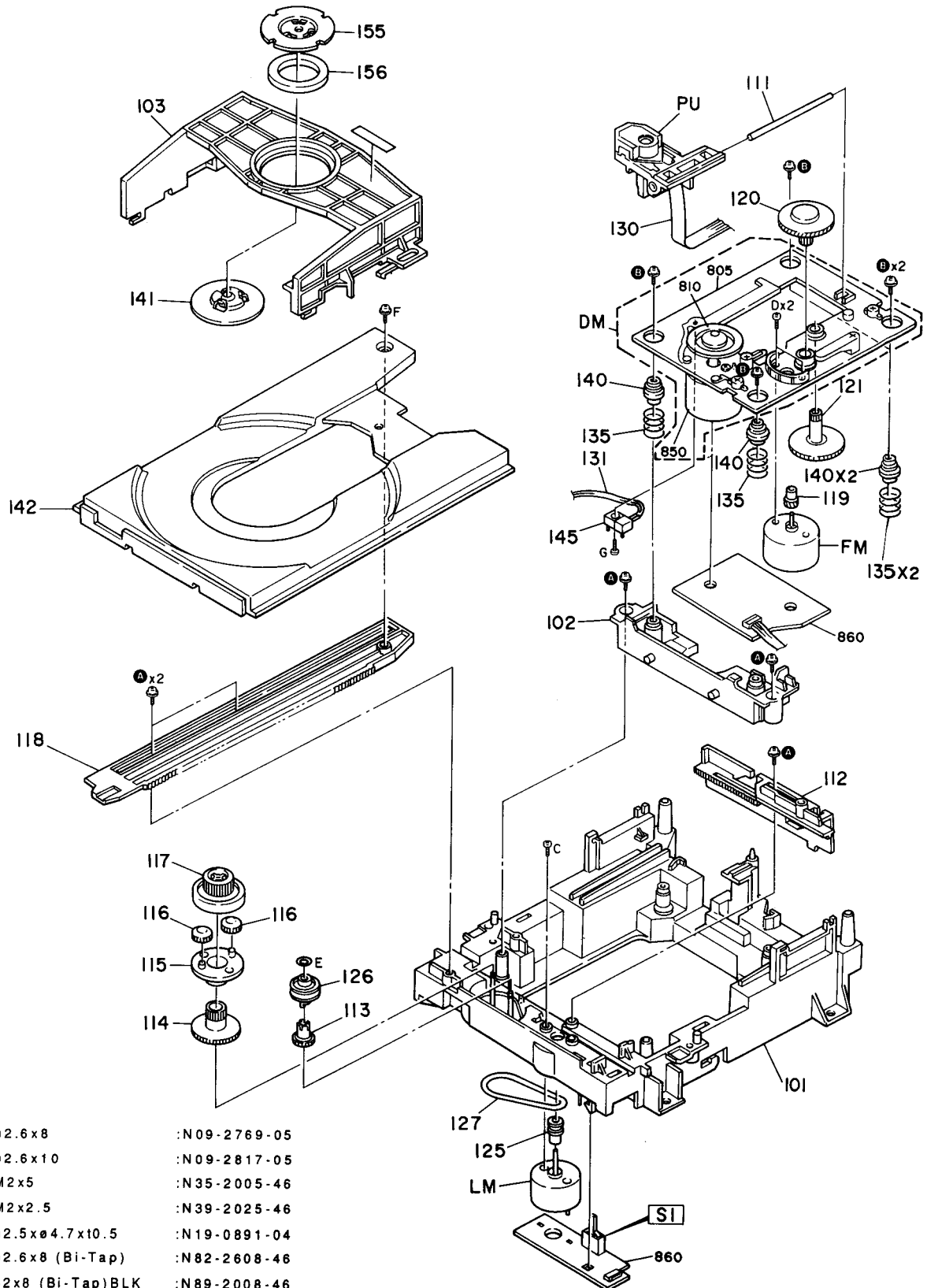
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DP-1050/2050
KENWOOD

DP-1050/2050

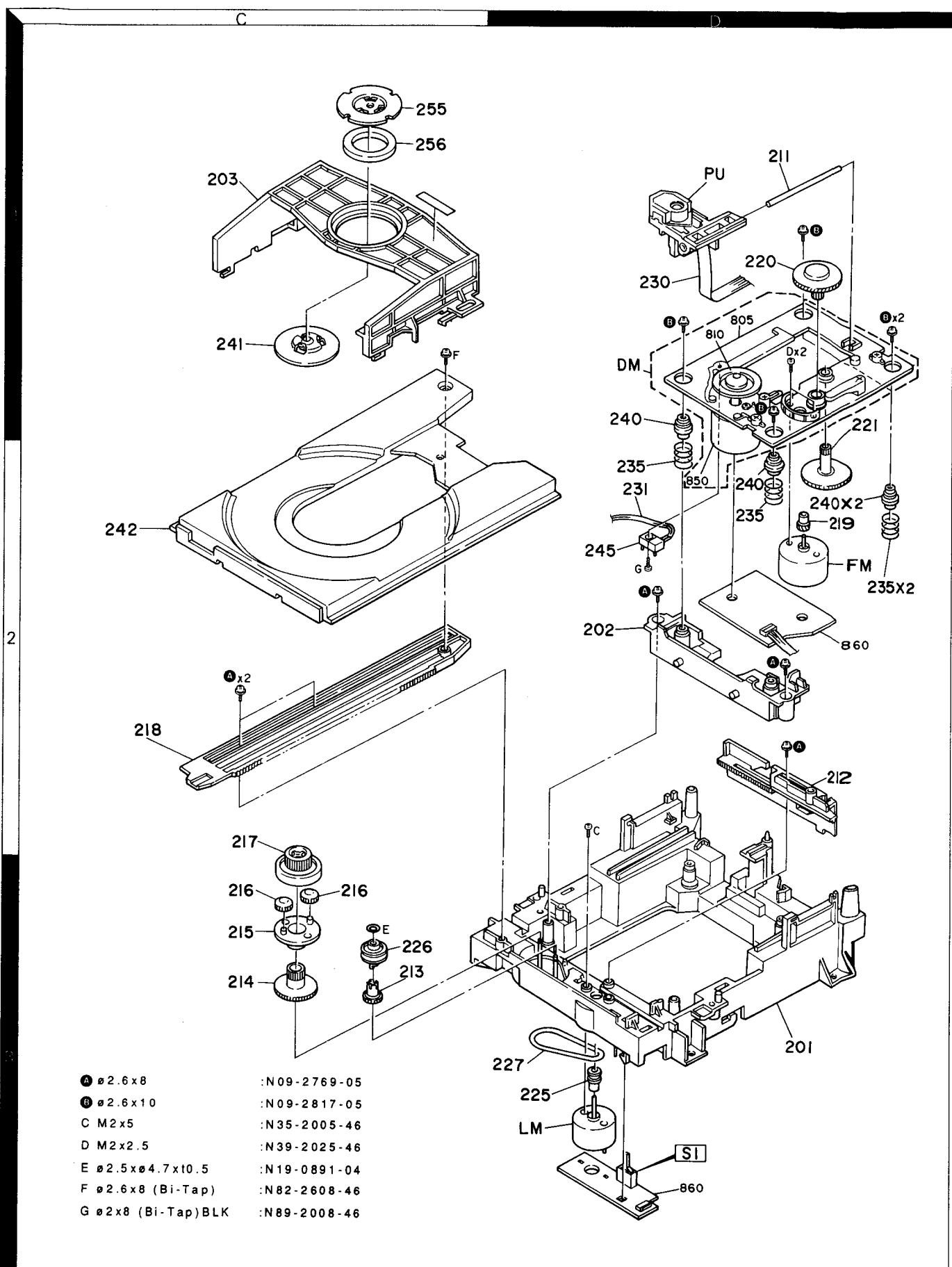
EXPLODED VIEW (MECHANISM) : SINGAPORE MADE



Parts with the exploded numbers larger than 700 are not supplied.

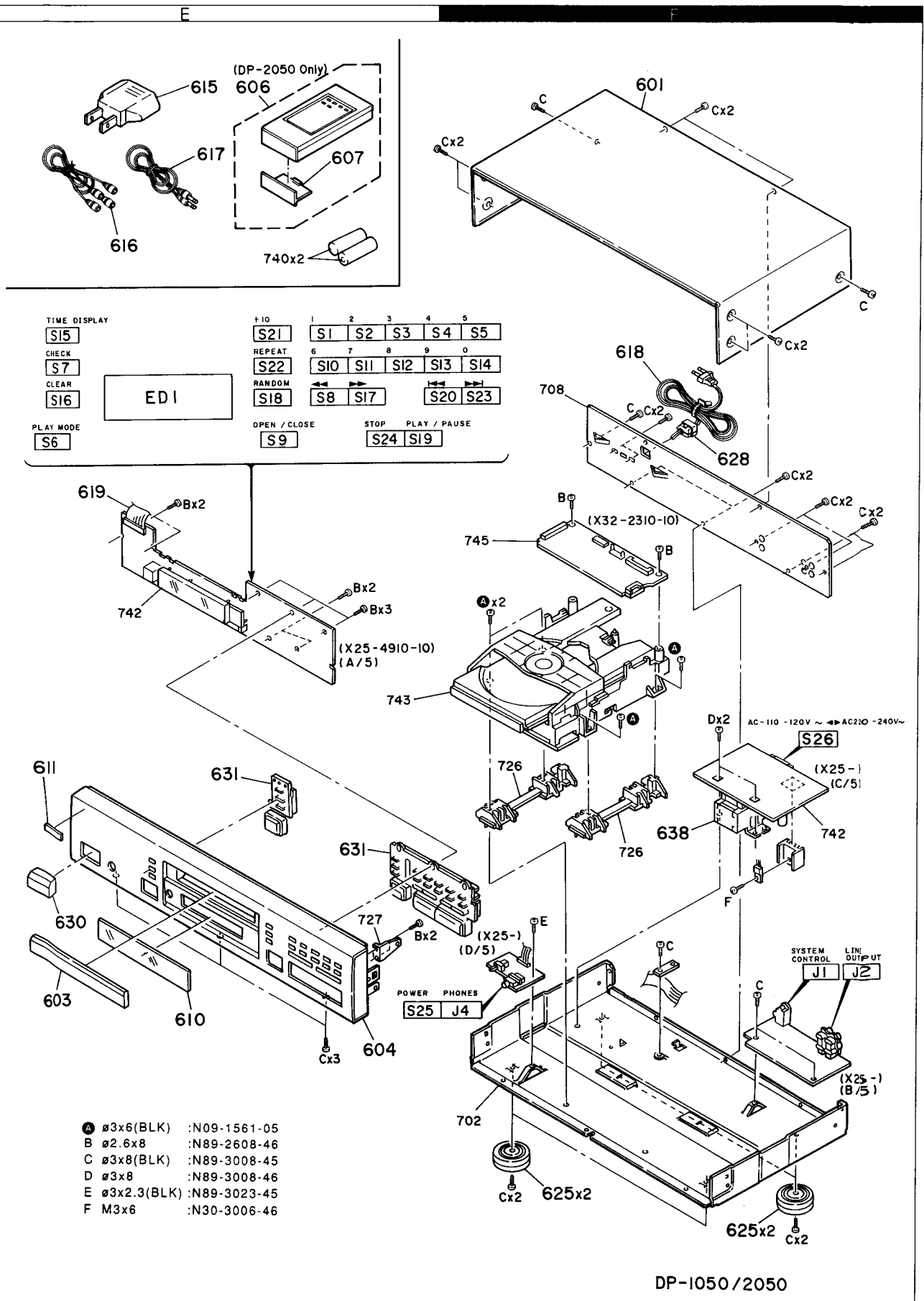
DP-1050/2050

EXPLODED VIEW (MECHANISM) : FRANCE MADE



DP-1050/2050

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

DP-1050/2050

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
DP-1050						
601	1F		A01-1890-01	METALLIC CABINET		
603	3E		A29-0314-03	PANEL (TRAY)		
604	3E	*	A60-0289-01	PANEL		
610	3E		B10-1944-03	FRONT GLASS		
611	2E		B43-0287-04	KENWOOD BADGE		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-13	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0184-13	WARRANTY CARD	T	F
-			B60-0887-00	INSTRUCTION MANUAL(ENGLISH)		
-			B60-0888-00	INSTRUCTION MANUAL(FRENCH)	PE	
-			B60-0889-00	INSTRUCTION MANUAL(CHINESE)	M	
-			B60-0890-00	INSTRUCTION MANUAL(G/D/I)	E	
-			B60-0891-00	INSTRUCTION MANUAL(SPANISH)	ME	
△ 615	1E		E03-0115-05	AC PLUG ADAPTER	M	
616	1E		E30-0505-05	AUDIO CORD		
617	1E		E30-1392-05	CORD WITH PLUG		
△ 618	1F		E30-2274-15	AC POWER CORD	P	
△ 618	1F		E30-2275-15	AC POWER CORD	X	
618	1F		E30-2276-15	AC POWER CORD	T	F
△ 618	1F		E30-2277-15	AC POWER CORD	ME	
619	2E		E35-0384-05	FLAT CABLE		
-		*	H10-5316-12	POLYSTYRENE FOAMED FIXTURE		
-			H10-5317-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5344-12	POLYSTYRENE FOAMED FIXTURE		F
-			H10-5345-02	POLYSTYRENE FOAMED FIXTURE		F
-			H20-0554-04	PROTECTION COVER	M	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0330-04	PROTECTION BAG	PXE	
-			H25-0651-04	PROTECTION BAG (235X350X0.03)	T	F
-			H25-0658-04	PROTECTION BAG	T	F
-		*	H50-0386-04	ITEM CARTON CASE		F
-		*	H50-0453-04	ITEM CARTON CASE	PXE	
-		*	H50-0454-04	ITEM CARTON CASE	M	
△ 625	3F		J02-1034-05	FOOT		
△ 628	2F		J42-0083-05	POWER CORD BUSHING		
630	3E		K27-2080-04	KNOB (BUTTON)		
631	2E		K29-4418-12	KNOB		
△ 638	2F		L07-0586-05	POWER TRANSFORMER	P	
△ 638	2F		L07-0587-05	POWER TRANSFORMER	M	
△ 638	2F		L07-0588-05	POWER TRANSFORMER	XE	
DP-2050						
601	1F		A01-1890-01	METALLIC CABINET		
603	3E	*	A29-0314-03	PANEL (TRAY)		
604	3E	*	A60-0241-01	PANEL		
606	1E		A70-0529-05	REMOTE CONTROLLER ASSY	PYM	
606	1E		A70-0532-05	REMOTE CONTROLLER ASSY	XTE	
607	1E		A09-0110-08	BATTERY COVER	K	
610	3E	*	B10-1944-03	FRONT GLASS		

L:Scandinavia

K:USA

P:Canada

F=FRANCE MADE

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components

PARTS LIST

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
611	2E		B43-0287-04	KENWOOD BADGE		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-13	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0887-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0888-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-0889-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-0890-00	INSTRUCTION MANUAL (G/D/I)	E	
-		*	B60-0891-00	INSTRUCTION MANUAL (SPANISH)	ME	
Δ 615	1E		E03-0115-05	AC PLUG ADAPTER	M	
616	1E		E30-0505-05	AUDIO CORD		
617	1E		E30-1392-05	CORD WITH PLUG		
Δ 618	1F		E30-2274-15	AC POWER CORD	KP	
Δ 618	1F		E30-2275-15	AC POWER CORD	X	
Δ 618	1F		E30-2276-15	AC POWER CORD	T	
Δ 618	1F		E30-2277-15	AC POWER CORD	ME	
Δ 618	1F		E30-2284-15	AC POWER CORD	Y	
619	2E		E35-0384-05	FLAT CABLE		
-		*	H10-5316-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5317-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5344-12	POLYSTYRENE FOAMED FIXTURE		F
-		*	H10-5345-02	POLYSTYRENE FOAMED FIXTURE		F
-			H20-0554-04	PROTECTION COVER	M	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-			H25-0330-04	PROTECTION BAG	KPYXE	
-			H25-0651-04	PROTECTION BAG	T	
-			H25-0658-04	PROTECTION BAG	T	
-		*	H50-0350-04	ITEM CARTON CASE	KPYXTE	
-		*	H50-0351-04	ITEM CARTON CASE	M	
-		*	H50-0385-04	ITEM CARTON CASE		F
Δ 625	3F		J02-1034-05	FOOT		
Δ 628	2F		J42-0083-05	POWER CORD BUSHING		
630	3E	*	K27-2080-04	KNOB (BUTTON)		
631	2E	*	K29-4418-12	KNOB		
Δ 638	2F	*	L07-0586-05	POWER TRANSFORMER	KP	
Δ 638	2F	*	L07-0587-05	POWER TRANSFORMER	YM	
Δ 638	2F	*	L07-0588-05	POWER TRANSFORMER	XTE	
MECHANISM PCB (X25-4840-21)						
S1			S33-2062-05	LEVER SWITCH		
OPERATION UNIT (X25-4910)						
C1 , 2			CE04LW1A221MCC	ELECTR0 220UF 10WV		
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			CE04LW1H470MCC	ELECTR0 47UF 50WV		
C5 , 6			CE04LW1C222MCC	ELECTR0 2200UF 16WV		
C7			CE04LW1H470MCC	ELECTR0 47UF 50WV		
C8			CK45FF1H103Z	CERAMIC 0.010UF Z		

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DP-1050/2050

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C9 C10 -15 C16 -18 C19 ,20 C21 ,22			CF92FV1H104J CK45FF1H103Z CK45FB1H102K CF92FV1H123J CF92FV1H471J	MF 0.10UF J CERAMIC 0.010UF Z CERAMIC 1000PF K MF 0.012UF J MF 470PF J		
C23 ,24 C25 C25 ,26 C27 ,28 C29			CE04LW1V100MCC CK45FF1H103Z CK45FF1H103Z CE04LW1V100MCC CE04LW1C101MCC	ELECTRO 10UF 35WV CERAMIC 0.010UF Z CERAMIC 0.010UF Z ELECTRO 10UF 35WV ELECTRO 100UF 16WV	K PYMXTE PYMXTE	
C30 C31 ,32 C33 C34 C35			CK45FF1H103Z CE04LW1V100MCC CK45FB1H102K CC45FSL1H221J CK45FF1H103Z	CERAMIC 0.010UF Z ELECTRO 10UF 35WV CERAMIC 1000PF K CERAMIC 220PF J CERAMIC 0.010UF Z	PYMXTE	
C36 -39 C38 ,39 C40 C41			CC45FSL1H221J CC45FSL1H221J CF92FV1H104J CE04LW1A101MCC	CERAMIC 220PF J CERAMIC 220PF J MF 0.10UF J ELECTRO 100UF 10WV	PYMXTE K	
J1 J2 J2 J4	3F 3F 3F 3F		E11-0188-05 E13-2208-05 E63-0007-05 E11-0208-05	MINIATURE PHONE JACK PHONE JACK (2P) PHONE JACK (4P) PHONE JACK	K PYMXTE	1 2
-			F01-1889-05	HEAT SINK		
-			J11-0098-05	WIRE CLAMPER		
-			J19-3392-04	HOLDER		
-			J21-5159-04	MOUNTING HARDWARE	YMXTE	
R15 R70			RS14KB3D3R9J RS14KB3A1R5J	FL-PROOF RS 3.9 J 2W FL-PROOF RS 1.5 J 1W		
S1 -24 S25 S26	3E 2F		S40-1064-05 S40-2370-05 S31-2131-05	PUSH SWITCH PUSH SWITCH (POWER) SLIDE SWITCH (POWER VOLT)	YM	
D1 D1 D2 D2 D3			HSS104 1SS133 HZS6.8N(B2) RD6.8ES(B2) HZS30N(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D3 D4 -8 D4 -8 D9 D9	Δ Δ		RD30ES(B2) S5688B 1SR139-100 HZS6.8N(B2) RD6.8ES(B2)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D10 -20 D10 -20 D21 D21 D22			HSS104 1SS133 HZS5.6N(B2) RD5.6ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D22 D25 -27 D25 -27 ED1 IC1 ,2			1SS133 HSS104 1SS133 FIP9KM5 NJM4565D	DIODE DIODE DIODE INDICATOR TUBE IC(OP AMP X2)		

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IC3			TC4066BP	IC(ANALOG/ DIGITAL SW)	PYMXTE	2
IC3			XRU4066B	IC(ANALOG SWITCH)	PYMXTE	2
IC4			NJM4565D	IC(OP AMP X2)	PYMXTE	2
Q1			2SD1944	TRANSISTOR		
Q2			2SA1175(F,E)	TRANSISTOR		
Q2			2SA933S(Q,R)	TRANSISTOR		
Q3			2SD1944	TRANSISTOR		
Q4			2SA1175(F,E)	TRANSISTOR		
Q4			2SA933S(Q,R)	TRANSISTOR		
Q5			2SA1534A(R,S)	TRANSISTOR		
Q6 ,7			2SC2878(B)	TRANSISTOR		
Q8			2SC1740S(Q,R)	TRANSISTOR		
Q8			2SC2785(F,E)	TRANSISTOR		
Q9 -11			DTA113ZS	DIGITAL TRANSISTOR	PYMXTE	2
Q9 -11			UN4119	TRANSISTOR	PYMXTE	2
Q12 -15			2SC2878(B)	TRANSISTOR	PYMXTE	2
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		2
PROCESSOR UNIT (X32-2310-10, X32-2360-10)						
C4			CK73FB1H103K	CHIP C 0.010UF K		
C5			C90-3223-05	ELECTRO 220UF 10WV		
C6			CC73FSL1H050J	CHIP C 5.0PF J		
C31			CK73FB1E104K	CHIP C 0.10UF K		
C35			CC73FSL1H101J	CHIP C 100PF J		
C37 ,38			C90-3227-05	ELECTRO 33UF 16WV		
C39			C90-3253-05	ELECTRO 1UF 50WV		
C40			CK73FB1E104K	CHIP C 0.10UF K		
C41			CC73FSL1H470J	CHIP C 47PF J		
C42			CK73FB1H332K	CHIP C 3300PF K		
C43			CK73FB1H222K	CHIP C 2200PF K		
C44			CK73FB1H103K	CHIP C 0.010UF K		
C45			CK73FB1E104K	CHIP C 0.10UF K		
C46			CK73FB1E563K	CHIP C 0.056UF K		
C47			C90-3251-05	ELECTRO 0.47UF 50WV		
C48			CK73FB1H103K	CHIP C 0.010UF K		
C49			CK73FB1E104K	CHIP C 0.10UF K		
C50			CK73FB1H561K	CHIP C 560PF K		
C51 ,52			CK73FB1H333K	CHIP C 0.033UF K		
C53			C90-3209-05	ELECTRO 10UF 6.3WV		
C54			CK73FB1H222K	CHIP C 2200PF K		
C55			CK73FB1H152K	CHIP C 1500PF K		
C56			CC73FSL1H820J	CHIP C 82PF J		
C57			C90-3254-05	ELECTRO 2.2UF 50WV		
C59 ,60			C90-3227-05	ELECTRO 33UF 16WV		
C61 ,62			CK73FB1H103K	CHIP C 0.010UF K		
C63			CK73FB1E104K	CHIP C 0.10UF K		
C64			CK73FB1H223K	CHIP C 0.022UF K		
C65			CK73FB1H332K	CHIP C 3300PF K		
C66		*	C90-3472-05	ELECTRO 2.2UF 50WV		
C67			C90-3210-05	ELECTRO 22UF 6.3WV		
C69			C90-3254-05	ELECTRO 2.2UF 50WV		
C70		*	C90-3472-05	ELECTRO 2.2UF 50WV		
C101			CK73FB1H473K	CHIP C 0.047UF K		
C102			CK73FB1H152K	CHIP C 1500PF K		

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C103 C104 C105, 106 C107-109 C111			C90-3210-05 CK73FB1H103K CC73FSL1H100J C90-3228-05 C90-3223-05	ELECTRO 22UF 6.3WV CHIP C 0.010UF K CHIP C 10PF J ELECTRO 47UF 16WV ELECTRO 220UF 10WV		
C112 C113, 114 C115-118 C122 C123			C90-3214-05 CK73FB1H221K CC73FCH1H331J C90-3220-05 C90-3253-05	ELECTRO 100UF 6.3WV CHIP C 220PF K CHIP C 330PF J ELECTRO 47UF 10WV ELECTRO 1UF 50WV		
C124 C125-127 C128, 129 C131 C132			C90-1827-05 CK73FB1H103K CK73FB1E104K CK73FB1H222K C90-3253-05	BACKUP 0.047F 5.5WV CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 2200PF K ELECTRO 1UF 50WV		2
C151			C90-3253-05	ELECTRO 1UF 50WV		
CN1 CN3			E40-4209-05 E40-4631-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		
X1 X2			L77-2109-05 L78-0267-05	CRYSTAL RESONATOR (16.9344MHZ) RESONATOR (4.19MHZ)		
VR1 , 2			R12-3686-05	TRIMMING POT.(22K)		
D1 -9 D11 , 12 D13 D13 D14 -16			MA110 MA110 DTZ2.7(B) MA8027-H MA110	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
IC1 IC2 IC3 IC4 , 5 IC6		*	CXP50112-396Q TA8409F CXA1372Q TA8406F CXD2500AQ	IC IC(MOTOR DRIVER) IC(CD RF SERVØ) IC IC(SIGNAL PROCESSOR)		
IC7 IC8 IC9 IC10 IC11			SM5871AS NJM4565M XRA10393F TC74HCU04AF M5237ML	IC(D/A CONVERTER) IC(OP AMP) IC IC(HEX INVERTER SMD) IC(VOLTAGE REGULATOR)		
Q1 Q2 Q3 , 4			DTC124EK 2SB1308(Q, R) 2SD1963Q(R, S)	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
MECHANISM ASSY : SINGAPORE MADE (X92-1750-XX)						
101 102 103	3B 2B 1A	*	A10-2974-01 A11-0756-03 A11-0757-02	CHASSIS (MAIN) SUB CHASSIS (FRAME) SUB CHASSIS (CLAMPER)		
111 112 113 114 115	1B 2B 3A 3A 3A		D10-2490-04 D10-3253-03 D13-0975-04 D13-0976-03 D13-0977-03	ROD SLIDER GEAR (INTERMEDIATE) GEAR (CENTER) GEAR (CARRIER)		
116 117 118 119	3A 2A 2A 2B		D13-0978-03 D13-0979-03 D13-0980-02 D13-0894-05	GEAR (IDLER) GEAR LACK (GEAR) GEAR (MOTOR)		

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120	1B		D13-0895-05	GEAR (INTERMEDIATE)		
121	1B		D13-0896-05	GEAR (FEED)		
125	3B		D15-0328-04	MOTOR PULLEY		
126	3A		D15-0329-03	PULLEY		
127	3B	*	D16-0333-03	BELT		
130	1B		E35-0296-05	FLAT CABLE		
131	2B		E35-0420-05	LEAD WIRE		
135	2B		G01-3326-14	COMPRESSION SPRING		
140	1B, 2B		J02-1058-15	INSULATOR		
141	1A		J11-0180-03	CLAMPER		
142	2A	*	J99-0514-01	TRAY		
145			S33-1022-05	LEVER SWITCH		
155	1A		T50-1058-04	YÖKE		
156	1A		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY (DISK MOTOR)		
FM	2D		T42-0532-05	DC MOTOR (FEED MOTOR)		
LM	3D		T42-0609-05	DC MOTOR (LOADING MOTOR)		
PU	1D		T25-0022-05	OPTICAL PICKUP HEAD		
MECHANISM ASSY : FRANCE MADE (X92-1780-XX)						
201	3D	*	A10-2978-01	CHASSIS (MAIN)		
202	2D	*	A11-0758-03	SUB CHASSIS (FRAME)		
203	1C	*	A11-0760-02	SUB CHASSIS (CLAMPER)		
211	1D		D10-2490-04	ROD		
212	2D		D10-3253-03	SLIDER		
213	3C		D13-0975-04	GEAR (INTERMEDIATE)		
214	3C		D13-0976-03	GEAR (CENTER)		
215	3C		D13-0977-03	GEAR (CARRIER)		
216	3C		D13-0978-03	GEAR (IDLER)		
217	2C		D13-0979-03	GEAR		
218	2C		D13-0980-02	LACK (GEAR)		
219	2D		D13-0894-05	GEAR (MOTOR)		
220	1D		D13-0895-05	GEAR (INTERMEDIATE)		
221	1D		D13-0896-05	GEAR (FEED)		
225	3D		D15-0328-04	MOTOR PULLEY		
226	3C		D15-0329-03	PULLEY		
227	3D		D16-0333-03	BELT		
230	1D		E35-0296-05	FLAT CABLE		
231	2D		E35-0420-05	LEAD WIRE		
235	2D	*	G01-3465-04	COMPRESSION SPRING		
240	1D, 2D		J02-1058-15	INSULATOR		
241	1C		J11-0180-03	CLAMPER		
242	2C	*	J99-0515-01	TRAY		
245			S33-1022-05	LEVER SWITCH		
255	1C		T50-1058-04	YÖKE		
256	1C		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY (DISK MOTOR)		
FM	2D		T42-0532-05	DC MOTOR (FEED)		
LM	3D		T42-0609-05	DC MOTOR (LOADING)		
PU	1D	*	T25-0024-05	OPTICAL PICKUP HEAD		

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SPECIFICATIONS

Format

System	Compact disc digital audio system
Laser	Semiconductor laser
Number of channels	2 channels
Playing rotation	200rpm~500rpm (CLV)

Audio

Frequency response	4Hz~20kHz±1.0dB
Signal to noise ratio	More than 94dB
Total harmonic distortion	Less than 0.005 % (at 1kHz)
Channel separation	More than 90dB (at 1kHz)
Wow & flutter	Unmeasurable limit
Output level/impedance	
LINE (FIXED)	1.2V/2.6kΩ
(VARIABLE)	0.24~1.2V/3.3kΩ
	(Except for the DP-2050 U.S.A. model and the DP-1050)
Headphones	20mW/16Ω (max.)

General

Power consumption 12W
Dimensions W : 440mm (17-5/16"), H : 107mm (4-3/16"), D : 261mm (10-1/4")
Weight (net) 3.3kg (7.3lb)

Note : KENWOOD follows a policy continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD CORPORATION

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